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# Montana Statewide Angling Pressure 1997

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Montana

Statewide Angling Pressure

Mail Survey

1997

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## INTRODUCTION

The Montana Department of Fish, Wildlife and Parks has conducted statewide angling mail surveys in the past. Bishop (1959, 1960 & 1961) conducted the first recorded mail survey of fishing pressure on a statewide basis for Montana. He found that residents fished 1,323,129 angler days, nonresident season license holders fished 60,632 angler days, and nonresident 6-day permit holders fished 40,933 angler days for the 1958 season. In 1959 residents fished 1,345,000 angler days, nonresident season license holders fished 54,000 angler days, and nonresident 6-day permit holders fished 121,000 angler days. In 1960 the third annual survey was conducted and residents fished 1,356,000 angler days, nonresident season license holders fished 53,000 angler days, and nonresident 7-day permit holders fished 112,000 angler days.

In 1968 Holton (1970) again initiated the statewide angling pressure mail survey. He found residents had fished 1,519,126 angler days, nonresident season license holders fished 69,653 angler days, and nonresident 6-day permit holders fished 161,772 angler days. Holton (1971) conducted another statewide survey for the 1969 license year. No results were reported because it was felt they were too high due to sampling problems.

In 1975, Gaffney (unpublished data) conducted a statewide survey of angling pressure by mail. He found residents fished a total of 2,314,030 angler days and nonresidents 508,034 angler days for a statewide total of 2,822,093 angler days. An attempt was made to continue that statewide survey in 1976 using the 1975 mailing lists. This did not provide adequate samples for nonresidents, so only resident pressure was obtained.

Holton (1974) stated,

"The lack of up-to-date fishing pressure information on individual waters has been a handicap in fisheries management.

It is recommended that (the) evaluation of (a) mail survey to fill this need be accomplished as soon as feasible."

The surveys were started again in 1982 and run for four consecutive years (McFarland, 1989). The statewide angling pressure ranged from 2,197,402 to 2,723,713 angler days. In 1986 the surveys were again canceled for lack of funding.

In 1989, the Montana Legislature approved funding for an "Enhanced Survey of Angling Pressure". The funding was such that the survey was to be conducted every other year. In March 1989, the statewide angling use mail survey was again re-initiated. The statewide angling pressure was estimated at 2,336,085 angler days (McFarland, 1991). In 1991, 1993, and 1995 the statewide use was estimated at 2,300,880, 2,578,495, and 2,504,855 angler days respectively (McFarland & Hughes, 1993, 1995 & 1997).

## METHODS

The 1997 statewide angling mail pressure survey began in March of 1997 and was conducted for the license year ending in February 1998.

Samples were drawn from the Department's Sportsman's Database. There are six types of fishing licenses available to residents: a season license, a combo license, a sportsman's license, a "senior" license, a "youth" license and a disabled license. A season license is required for those resident anglers between the ages of 15 and 61 inclusive (a conservation license is required as a prerequisite to purchasing any fishing license). Residents between the ages of 12 and 14 inclusive are required to purchase a conservation license to fish. These were determined by using the date of birth on the Conservation license and were classified as "youth" license holders. The combo license combines a season fishing license and a conservation license. A sportsman's license provides a deer "A" tag, elk tag, bear tag, conservation license, a game bird stamp and a fishing license. Residents 62 years of age and older are entitled to fish by purchasing a conservation license. These were determined by using the date of birth on the Conservation license and were classified as "senior" license holders. Residents who are certified as permanently and substantially disabled may purchase a "Disabled Persons Conservation License". The "senior", "youth", and "disabled" licenses were combined for the "SYD" population.

Nonresidents 15 years of age and older must have a valid Montana fishing license to fish. Those nonresidents under the age of 15 may fish by buying a nonresident license or by being in the company of an adult with a valid Montana fishing license. If the latter, the combined limit may not exceed the limit for one adult.

Nonresidents have four types of licenses available for fishing in Montana; a combo license, a seasonal license, a two-day permit, and the big game combo. A nonresident conservation license is required as a prerequisite to purchasing any nonresident-fishing license.

The combo license combines a nonresident conservation license and seasonal fishing license. The big game license includes a conservation license, an elk tag, a deer "A" tag, a black bear tag, a fishing license and an upland game bird license. A two-day permit enables the nonresident angler to fish for two consecutive days of their choice. Anglers may purchase as many two-day permits as they want.

A computer program was written in ORACLE to create three populations of anglers from which to draw samples. A resident population, a nonresident population and a "SYD" population were created each month. The resident population comprised the following license types: combo, season, and sportsman. The nonresident population comprised the following license types: nonresident combo and nonresident season. The "SYD" population consisted of the following license types: senior (62 years of age



and older), youth (between 12 and 14 years of age inclusive), and disabled.

Gaffney (1982) sampled the 17,000 nonresident big game license holders in 1980 and found that 29.6% had fished while in Montana.

They averaged 3.9 days fishing per person which would account for nearly 20,000 man-days of use. This is less than 1% of the total pressure in the state. Due to budgetary constraints and the small amount of pressure, the big game license holders were not included in the nonresident sampling for 1995.

An ORACLE computer program was used to pull a random sample from each population. The amount pulled from each population was proportionally allocated to the angling pressure each population exerted from previous surveys. This proportion remained constant throughout all sampling periods.

Sampling was done on a stratified basis. Strata (waves) were monthly for the resident, seasonal nonresident, and SYD populations (Table 1).

The sample from each population was copied into a dBASE format structure and wave information and sequential serial numbers added.

A dBASE computer program was written to affix names and address as well as bar codes directly to each questionnaire. The questionnaire and a return envelope were stuffed into window envelopes and mailed (see appendix for examples).

Nonresident 2-day license holders could not be sampled directly, so nonresident conservation license holders were sampled and questions asked to ascertain if they were valid 2-day permit holders. These questionnaires were sent out at the beginning of March 1998 since less than 1% (1,163) of the 2-day permits are remitted after this date. The questionnaire asked about their fishing in Montana for the entire license year.

Authorized private dealers sell fishing licenses throughout the state. In addition, the seven regional headquarters and the Helena office sell licenses. All licenses are to be remitted to the licensing bureau in Helena by the 10th of the following month of the sale. Each license is a five-part form. The original remains with the angler, the first copy was sent to Bozeman for use in the surveys, the second copy was retained in Helena, the third copy was sent to the area warden and the fourth copy was retained by the license dealer. The licenses usually arrived in Bozeman one week after they were remitted to Helena. Licenses are then keyed and entered into the Sportsman's Database. Samples for the previous month were then pulled and the questionnaires mailed around the 20th of the following month. For example, samples for August would be pulled and sent around the 20th of September.

Table 1. Period of time covered for waves for the 1997 statewide angling survey.	
Wave	Time Period covered
1	March '97
2	April
3	May
4	June
5	July
6	August
7	September
8	October
9	November
10	December
11	January '98
12	February
99	Nonresident 2-day

Past surveys indicated that residents provide approximately 80% of the pressure (Gaffney 1975, McFarland 1991, McFarland 1993, McFarland 1995, McFarland 1997), therefore sampling was done on a 80/20 split between residents and nonresidents (i.e. proportional allocation). Actual numbers sent varied slightly from wave to wave (Table 2). For the "summer" waves 10,000 residents and nonresidents were sampled. In the "winter" the rate dropped to 5,000 residents and nonresidents. Since waves 1 and 2 had fewer license holders from which to sample, these two waves were sampled at a less intense level.

Two survey questionnaires were used, one for residents and season nonresidents and the other for 2-day nonresidents. The resident/nonresident questionnaire (see appendix A for examples), included questions on: what water was fished; nearest landmark, town, or county; section of stream or river fished (taken from map on back of questionnaire); date fishing occurred; number of days fished; whether the water selected was their second choice because their first choice had whirling disease; and to rate their fishing experience on a scale of 1 = poor to 5 = excellent. The 2-day questionnaire was the same basic design but included questions to ascertain if the respondent was a valid 2-day fishing permit holder and how many permits they bought. The survey also asked about their entire year of fishing versus a single month.

To ease the sorting process different colored forms were used for each wave and also for initial and remail mailings.



Table 2. Number of questionnaires sent for each wave by residency for 1997

Wave	Mailed		Useable		Returns	
	Res	Nonres	Res	Nonres	Res	Nonres
1	325	26	312	24	190	13
2	4631	365	3118	268	1624	160
3	9269	730	8792	668	5538	440
4	9270	728	8834	629	5291	535
5	9567	429	9063	390	5425	251
6	9568	424	9085	395	5221	258
7	9567	422	8982	382	5479	267
8	9568	424	9035	388	5495	258
9	4635	360	4387	337	2547	220
10	4635	363	4364	336	2725	232
11	4634	365	4324	334	2712	226
12	4635	360	4344	328	2721	232
99		10031		9186		4106

Surveys were mailed first class for wave 1. For wave 2 and the initial mailing on wave 3 the surveys were mailed bulk rate. To qualify for bulk rate the addresses had to be matched to the United States Postal Services file of valid addresses. This posed a problem for rural addresses. Since a rural route address is valid but not on the USPS list these were all excluded. Starting with the remail on wave 3 and continuing for the rest of the survey, the mailings were made using first class postage. This ended up saving money by not having to pay for the undeliverables to be returned when using bulk rate postage.

Remail questionnaires were mailed to those individuals who had not yet responded, from two to four weeks after the initial mailing. Returns for each wave were monitored and when they slowed down to a few each day the remail was sent.

Included in the remail was an explanation, (see appendix A for examples), a duplicate questionnaire and a return envelope. Returns were grouped and counted according to type of license, wave and mailing (initial or remail).

Phone surveys were made to small sample of resident anglers license holders who had not responded in either the initial or remail survey. The phoning was not done for all waves because of time constraints. Thus no comparison of non-response bias could be made. Because of budgetary constraints, nonresident 2-day, and non-resident season were not phoned. Data from this survey was to be used to determine if a non-response bias existed and to make adjustments if necessary.

The formula used was:

$$A_{ij} = R_{ij} + \frac{P_{ij}}{M_{ij}} [1 - R_{ij}]$$

where  $A_{ij}$  = Adjustment factor for non-response for the  $i^{\text{th}}$  wave and  $j^{\text{th}}$  residency

$R_{ij}$  = Response rate for mail survey for  $i^{\text{th}}$  wave and  $j^{\text{th}}$  residency (response rate is the total number of returns divided by the total number of surveys mailed out minus the number of undeliverable surveys)

$P_{ij}$  = Phone rate of days fished per respondent for  $i^{\text{th}}$  wave and  $j^{\text{th}}$  residency

$M_{ij}$  = Mail rate of days fished per respondent for  $i^{\text{th}}$  wave and  $j^{\text{th}}$  residency

Adjustment factors were set to 1.0 since the phoning was not done for enough waves or in a large enough sample size to be useful. After all questionnaires were received those that had fished in Montana during the period in question were separated from those who said "no". The "yes" respondents were then hand coded and assigned a numeric code for each water fished. They were visually edited for accuracy and completeness.

All data were then keypunched with each day of fishing recorded as a single record. Edits were run to correct invalid water codes. FORTRAN computer programs were written to analyze the data, calculate fishing pressure and standard errors, and to calculate the angler satisfaction levels.

Estimates were made for individual waters based upon the formula:

$$P_j = \sum_{i=1}^n \left[ \frac{E_{ij} * D_{ij}}{R_{ij}} \right] * A_{ij}$$

where  $P_j$  = Pressure for an individual water by the  $j^{\text{th}}$  residency

$E_{ij}$  = Number of eligible anglers for the  $i^{\text{th}}$  wave and  $j^{\text{th}}$  residency

$D_{ij}$  = Days fished that particular water for the  $i^{\text{th}}$  wave and  $j^{\text{th}}$  wave



$R_{ij}$  = Number of respondents from the survey for the  $i^{th}$  wave and  $j^{th}$  residency

$A_{ij}$  = Adjustment factor for non-response for the  $i^{th}$  wave and  $j^{th}$  residency

$n$  = number of waves in the estimate year or season

$j$  = number of residency types (resident, nonresident, or total)

the variance was then calculated using

$$VAR(P_j) = \sum_{i=1}^n \left[ \frac{E_{ij}^2 * VAR(D_{ij})}{R_{ij}} \right] * A_{ij}^2$$

Where  $P_j$ ,  $E_{ij}$ ,  $R_{ij}$ ,  $D_{ij}$ , and  $A_{ij}$  are the same as above.

Pressure estimates between waves and residency were assumed to be independent so variances were summed to obtain total variances.

The square root of the variance was taken and this number was reported as the error for fishing pressure.

## RESULTS

### **1997 ANNUAL**

Licensed anglers fishing on Montana waters exerted 2,880,925 angler days of pressure for the 1997 license year. Residents accounted for 2,153,008 angler days (74.7%) and nonresidents made up the remaining 727,917 angler days (25.3%). Individual water estimates sorted alphabetically are given in a separate report "Montana Statewide Angling Pressure 1997".

The pressure distributed between Fish, Wildlife and Parks regions (Figure 1) emphasizes the cold water fishery (Chart 1). Region 3 received the most angling pressure with 745,842 angler days (25.9%). Region 4 was next in order with 546,073 angler days (19.0%). Regions 1 and 2 were close with 474,821 (16.5%) and 410,488 (14.2%) angler days respectively. Region 5 had 368,199 angler days (12.8%). The warm water regions of 6 and 7 were the lowest in pressure with 228,736 (7.9%) and 93,432 (3.2%) angler days respectively.

Angling in Montana in 1997 was directed toward trout. Salmonid waters accounted for 86.4% (2,489,403 angler days) of the statewide pressure while nonsalmonid waters accounted for 11.1%



(320,700 angler days) of the pressure and undesignated waters accounted for 2.5% (70,822 angler days) of the pressure (Chart 2).

An undesignated water is one that did not have a unique code to assign, and therefore water type could not be determined. This water was assigned a generic code based on drainage and county so angling pressure could be estimated.

Within salmonid waters, the streams received more pressure than the lakes, 58.0% versus 42.0%. The nonsalmonid lakes received more pressure than the nonsalmonid streams, 64.4% versus 35.6% respectively.

Salmonid angling dominated the pressure in regions 1, 2, 3, 4, and 5. Regions 6 and 7 were predominately nonsalmonid angling (Chart 3, Table 3).

Table 3. Angling pressure in angler days by region by water type for the 1997 angling year.

TOTAL PRESSURE ESTIMATES THROUGH SUMMATION

REG	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NON-RESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
1	SALMONID STREAM	180169.	4549.	137699.	3553.	42470.	996.
	SALMONID LAKE	266409.	6735.	203889.	5213.	62520.	1522.
	NONSALMONID STREAM	92.	4.	92.	4.	0.	0.
	NONSALMONID LAKE	20698.	456.	18695.	425.	2003.	31.
	UNDESIG STRM MGMT	1876.	56.	937.	30.	939.	26.
	UNDESIG LAKE MGMT	5577.	146.	4532.	116.	1045.	30.
	REGIONAL PRESSURE ESTIMATES:	474821.	11946.	365844.	9341.	108977.	2605.
2	SALMONID STREAM	276394.	6988.	199231.	5148.	77163.	1840.
	SALMONID LAKE	127884.	3053.	103841.	2576.	24043.	477.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	3037.	65.	1639.	46.	1398.	19.
	UNDESIG LAKE MGMT	3173.	90.	2635.	74.	538.	16.
	REGIONAL PRESSURE ESTIMATES:	410488.	10196.	307346.	7844.	103142.	2352.
3	SALMONID STREAM	477695.	12382.	256173.	6909.	221522.	5473.
	SALMONID LAKE	259958.	6641.	191844.	4870.	68114.	1771.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	228.	6.	194.	5.	34.	1.
	UNDESIG STRM MGMT	4777.	143.	3164.	96.	1613.	47.
	UNDESIG LAKE MGMT	3184.	89.	2096.	54.	1088.	35.
	REGIONAL PRESSURE ESTIMATES:	745842.	19261.	453471.	11934.	292371.	7327.

Table 3. Angling pressure in angler days by region by water type for the 1997 angling year (continued).

REG	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		--NON-RESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
4							
	SALMONID STREAM	230999.	6184.	180950.	4911.	50049.	1273.
	SALMONID LAKE	250376.	6786.	231405.	6262.	18971.	524.
	NONSALMONID STREAM	25569.	689.	24045.	645.	1524.	44.
	NONSALMONID LAKE	21749.	574.	21385.	559.	364.	15.
	UNDESIG STRM MGMT	4873.	138.	3911.	106.	962.	32.
	UNDESIG LAKE MGMT	12507.	345.	11571.	321.	936.	24.
	REGIONAL PRESSURE ESTIMATES:	546073.	14716.	473267.	12804.	72806.	1912.
5							
	SALMONID STREAM	257392.	6806.	171133.	4411.	86259.	2395.
	SALMONID LAKE	90141.	2471.	80124.	2211.	10017.	260.
	NONSALMONID STREAM	11965.	295.	11061.	273.	904.	22.
	NONSALMONID LAKE	2925.	83.	2891.	82.	34.	1.
	UNDESIG STRM MGMT	1496.	35.	942.	28.	554.	7.
	UNDESIG LAKE MGMT	4280.	119.	3040.	83.	1240.	36.
	REGIONAL PRESSURE ESTIMATES:	368199.	9809.	269191.	7088.	99008.	2721.
6							
	SALMONID STREAM	9708.	257.	9337.	246.	371.	11.
	SALMONID LAKE	43546.	1126.	42645.	1102.	901.	24.
	NONSALMONID STREAM	37208.	1061.	34279.	982.	2929.	79.
	NONSALMONID LAKE	131032.	3547.	113628.	3111.	17404.	436.
	UNDESIG STRM MGMT	686.	20.	619.	18.	67.	2.
	UNDESIG LAKE MGMT	6556.	174.	6253.	165.	303.	9.
	REGIONAL PRESSURE ESTIMATES:	228736.	6185.	206761.	5624.	21975.	561.
7							
	SALMONID STREAM	10674.	257.	4519.	140.	6155.	117.
	SALMONID LAKE	8058.	223.	7824.	215.	234.	8.
	NONSALMONID STREAM	39383.	1138.	35716.	1029.	3667.	109.
	NONSALMONID LAKE	29851.	814.	18289.	531.	11562.	283.
	UNDESIG STRM MGMT	76.	3.	76.	3.	0.	0.
	UNDESIG LAKE MGMT	5390.	143.	5146.	140.	244.	3.
	REGIONAL PRESSURE ESTIMATES:	93432.	2578.	71570.	2058.	21862.	520.
TOTAL							
	SALMONID STREAM	1443031.	37423.	959042.	25318.	483989.	12105.
	SALMONID LAKE	1046372.	27035.	861572.	22449.	184800.	4586.
	NONSALMONID STREAM	114217.	3187.	105193.	2933.	9024.	254.
	NONSALMONID LAKE	206483.	5480.	175082.	4713.	31401.	767.
	UNDESIG STRM MGMT	30155.	812.	16846.	487.	13309.	325.
	UNDESIG LAKE MGMT	40667.	1106.	35273.	953.	5394.	153.
	STATEWIDE PRESSURE ESTIMATES:	2880925.	75043.	2153008.	56853.	727917.	18190.



Region 3 had the largest angling pressure for salmonid streams (477,695 angler days) and salmonid lakes (259,958 angler days). Nonsalmonid stream fishing pressure was largest in region 7 (39,383 angler days), while the nonsalmonid lake angling pressure was largest in region 6 (131,032 angling days).

Residents (Chart 4) exerted the majority of angling pressure in 1997 in all regions. The percent of angling pressure by residents for each region was: region 1 - 77.0%, region 2 - 74.9%, region 3 - 60.8%, region 4 - 86.7%, region 5 - 73.1%, region 6 - 90.4%, and region 7 - 76.6%.

August (wave 6) was, overall, the peak fishing period, while November (wave 9) was the least fished period during the year (Table 4). Residents preferred to fish during July (wave 5) while nonresident season license holders preferred to fish during August. Residents fished the least in November and nonresident season license holders fished the least in March (wave 1). The 2-day license holders exerted the majority of the nonresident pressure (61.5%). Since these anglers were sampled once at the end of the license year the pressure could not be classified into waves although it can logically be assigned to the summer season.

Table 4. Pressure in angler days by wave for the 1997 survey year.

WAVE	TOTAL	RESIDENT	NONRESIDENT
1	39,685	37,614	2,071
2	160,574	152,393	8,181
3	209,754	198,125	11,629
4	316,129	287,943	28,186
5	461,306	398,749	62,557
6	480,529	396,103	84,426
7	257,098	216,696	40,402
8	144,992	130,369	14,623
9	73,638	62,839	10,799
10	90,362	81,123	9,239
11	103,639	98,881	4,758
12	95,887	92,173	3,714
99	447,332		447,332



# Statewide Angling Pressure Regional Estimates 1997

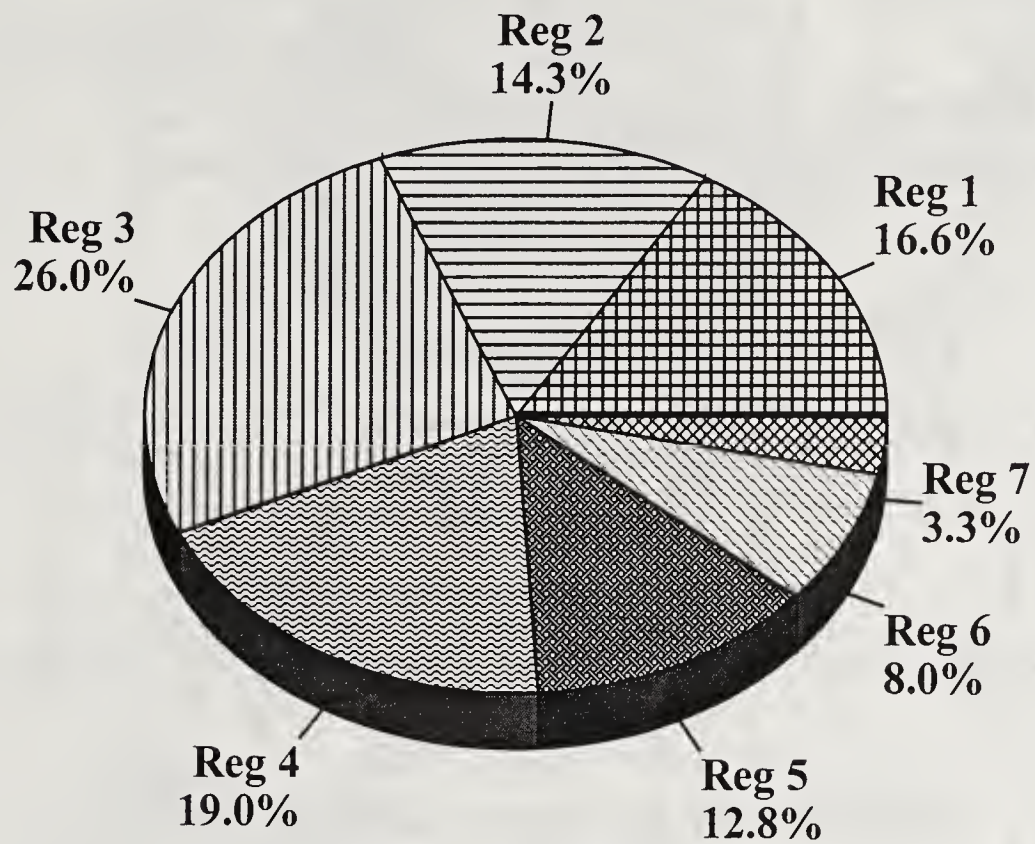


Chart 1. Percent of total statewide angling pressure by FWP region for 1997.

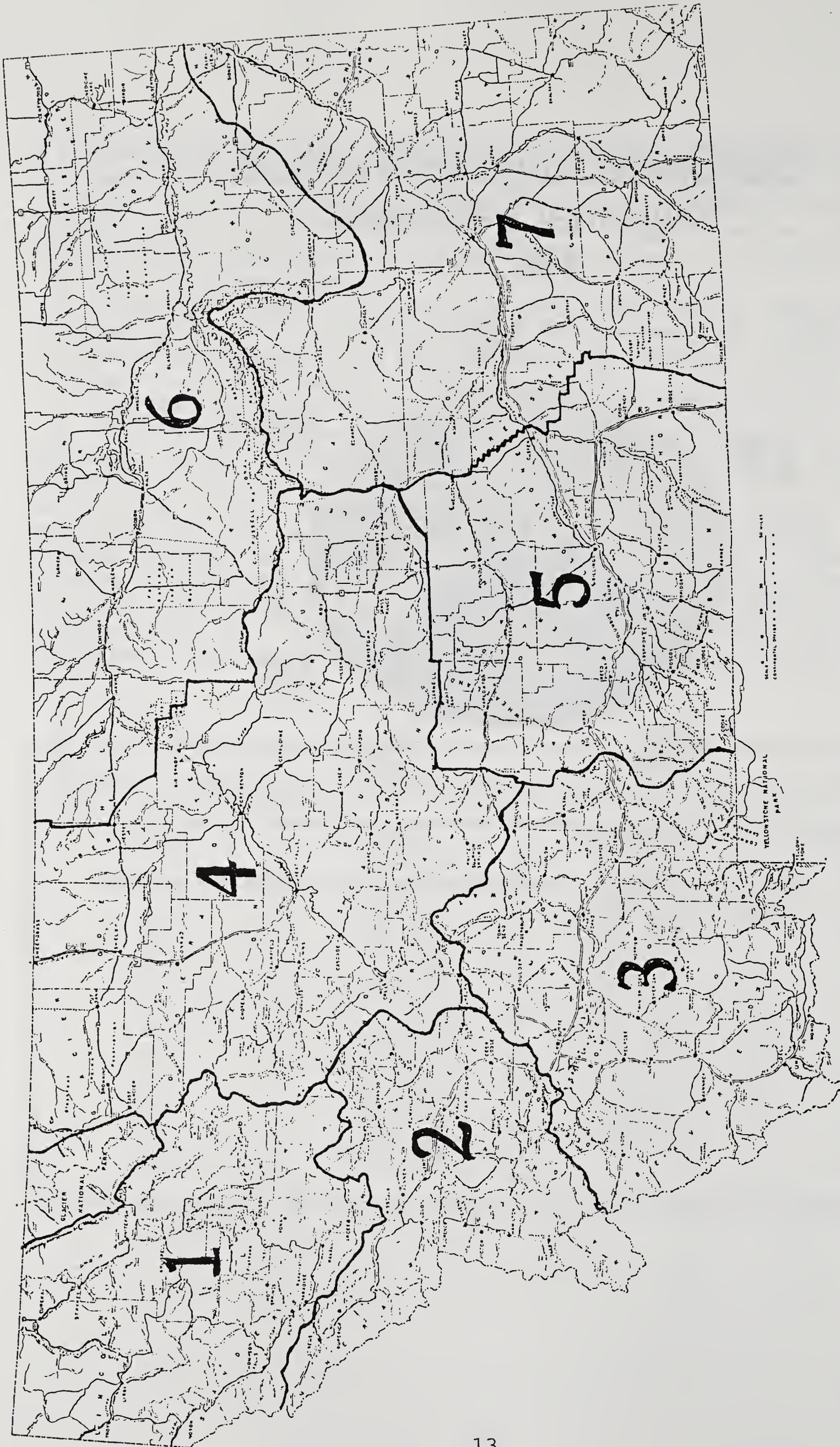


Figure 1. Map of the state of Montana showing the Fish, Wildlife & Parks regional boundaries.



## Statewide Angling Pressure Comparing Water Types 1997

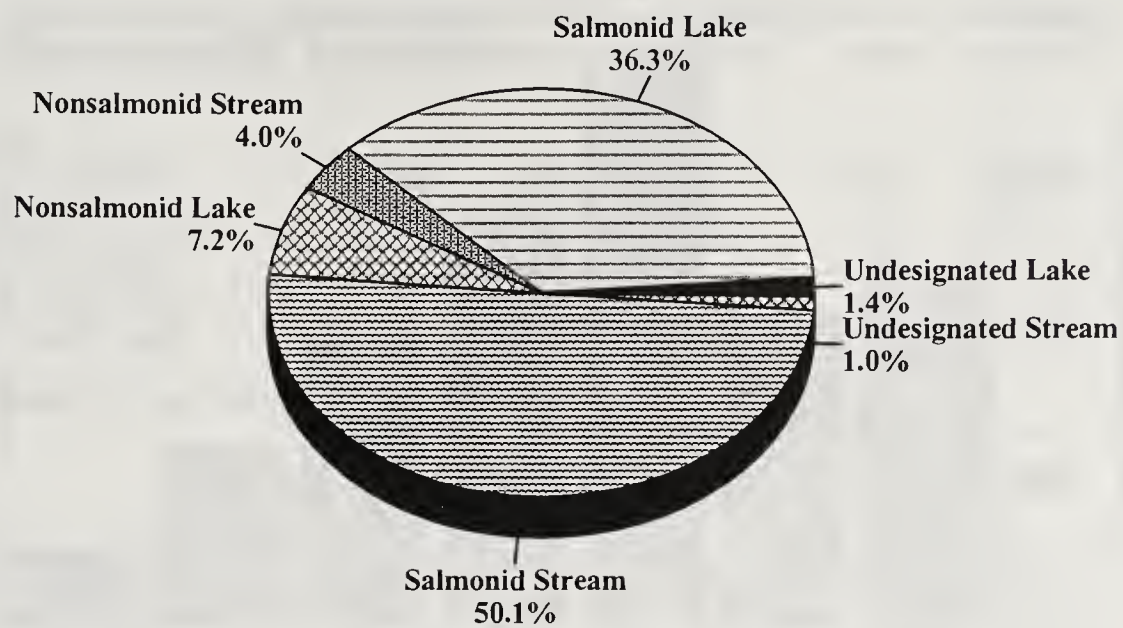


Chart 2. Angling Pressure and percentages by type of water for 1997.

## Statewide Angling Pressure Comparing Regional Water Types 1997

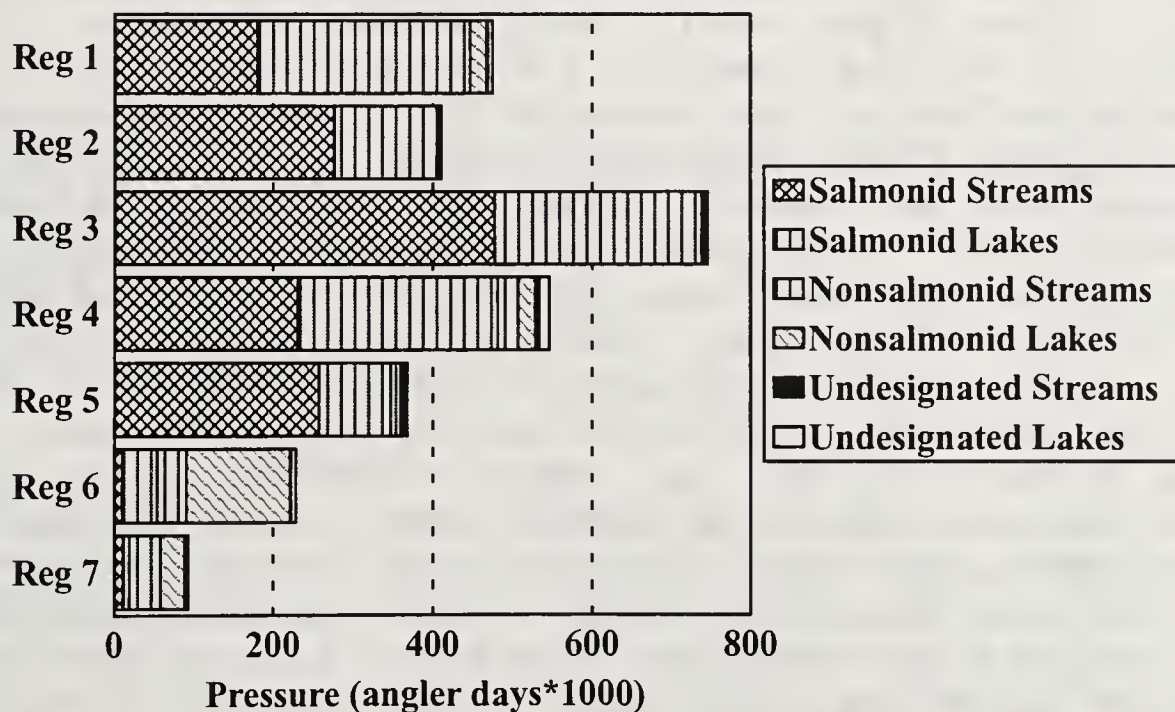


Chart 3. Angling pressure by region by water type for 1997.



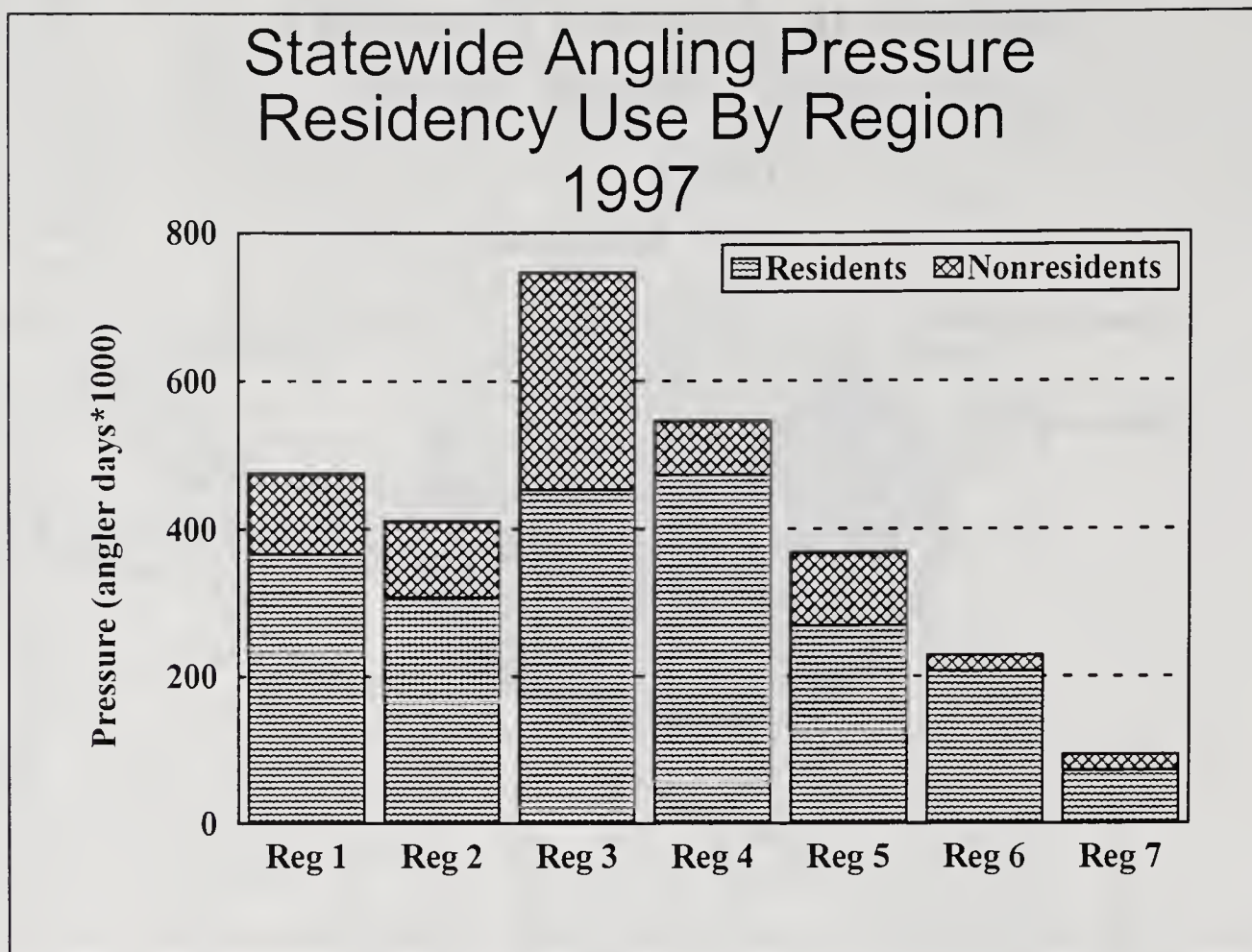


Chart 4. Angling pressure by region by residency for 1997.

Angling pressure was summarized by the 22 major drainages within the state (Table 5). The lower Clark Fork River drainage contains the angling pressure from all the streams and lakes below the Bitterroot River, excluding the pressure from those waters contained in other drainages listed (Flathead, Kootenai, and Bitterroot). The Upper Clark Fork River drainage, likewise, contains all the angling pressure for waters above the Bitterroot River drainage excluding the pressure for those drainages listed.

The upper Flathead River drainage contains the South Fork Flathead River drainage and all waters above the confluence of the South Fork Flathead River. The lower Flathead River drainage includes those waters below the confluence of the South Fork Flathead River including Flathead Lake and those waters (where pressure was obtainable) on the Kootenai-Salish Indian reservation. The lower Missouri River drainage covers all waters below the confluence of the Marias River, while the upper Missouri River drainage incorporates the area above the Marias River, again excluding those drainages listed separately. The lower Yellowstone River drainage represents the area below the mouth of the Bighorn River while the upper Yellowstone River drainage covers the Bighorn River drainage and all waters above the confluence of the Bighorn River.

The pressure by drainage ranged from 483,580 angler days for the Upper Missouri River drainage to 2,894 angler days for the Little Missouri River drainage.

Table 5. Angling pressure in angler days by drainage by water type for the 1997 angling year  
Mar '97 through Feb '98

TOTAL PRESSURE ESTIMATES THROUGH SUMMATION

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
BEAVERHEAD DR							
	SALMONID STREAM	72085.	1955.	29749.	839.	42336.	1116.
	SALMONID LAKE	68067.	1692.	38241.	907.	29826.	785.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	34.	1.	0.	0.	34.	1.
	UNDESIG LAKE MGMT	295.	8.	194.	5.	101.	3.
DRAINAGE PRESSURE ESTIMATES:							
		140481.	3656.	68184.	1751.	72297.	1905.
BIG HOLE DR							
	SALMONID STREAM	97027.	2531.	52567.	1487.	44460.	1044.
	SALMONID LAKE	6842.	170.	4568.	122.	2274.	48.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	224.	7.	89.	3.	135.	4.
	UNDESIG LAKE MGMT	454.	12.	253.	6.	201.	6.
DRAINAGE PRESSURE ESTIMATES:							
		104547.	2720.	57477.	1618.	47070.	1102.
BITTERROOT DR							
	SALMONID STREAM	115274.	2792.	84696.	2113.	30578.	679.
	SALMONID LAKE	7420.	189.	5758.	146.	1662.	43.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	1908.	38.	928.	26.	980.	12.
	UNDESIG LAKE MGMT	841.	24.	740.	21.	101.	3.
DRAINAGE PRESSURE ESTIMATES:							
		125443.	3043.	92122.	2306.	33321.	737.
BLACKFOOT DR							
	SALMONID STREAM	47231.	1236.	34832.	938.	12399.	298.
	SALMONID LAKE	31994.	827.	29130.	769.	2864.	58.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	128.	4.	128.	4.	0.	0.
	UNDESIG LAKE MGMT	730.	20.	596.	16.	134.	4.
DRAINAGE PRESSURE ESTIMATES:							
		80083.	2087.	64686.	1727.	15397.	360.
LOWER CLARK FORK DR							
	SALMONID STREAM	79337.	2075.	58955.	1532.	20382.	543.
	SALMONID LAKE	32986.	796.	28220.	685.	4766.	111.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	1963.	32.	412.	12.	1551.	20.
	UNDESIG STRM MGMT	812.	18.	362.	10.	450.	8.
	UNDESIG LAKE MGMT	1241.	35.	870.	24.	371.	11.
DRAINAGE PRESSURE ESTIMATES:							
		116339.	2956.	88819.	2263.	27520.	693.



Table 5. Angling pressure in angler days by drainage by water type for the 1997 angling year  
Mar '97 through Feb '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
UPPER CLARK FORK DR							
	SALMONID STREAM	67382.	1770.	46119.	1234.	21263.	536.
	SALMONID LAKE	84900.	1948.	66266.	1591.	18634.	357.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	538.	15.	436.	12.	102.	3.
	UNDESIG LAKE MGMT	1092.	32.	856.	25.	236.	7.
DRAINAGE PRESSURE ESTIMATES:							
		153912.	3765.	113677.	2862.	40235.	903.
LOWER FLATHEAD DR							
	SALMONID STREAM	62861.	1612.	53145.	1359.	9716.	253.
	SALMONID LAKE	146096.	3731.	122324.	3133.	23772.	598.
	NONSALMONID STREAM	92.	4.	92.	4.	0.	0.
	NONSALMONID LAKE	17568.	390.	17217.	382.	351.	8.
	UNDESIG STRM MGMT	441.	12.	142.	5.	299.	7.
	UNDESIG LAKE MGMT	2482.	59.	2349.	56.	133.	3.
DRAINAGE PRESSURE ESTIMATES:							
		229540.	5808.	195269.	4939.	34271.	869.
UPPER FLATHEAD DR							
	SALMONID STREAM	27471.	743.	20103.	549.	7368.	194.
	SALMONID LAKE	16286.	467.	14070.	403.	2216.	64.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	213.	6.	78.	2.	135.	4.
	UNDESIG LAKE MGMT	1645.	49.	1307.	39.	338.	10.
DRAINAGE PRESSURE ESTIMATES:							
		45615.	1265.	35558.	993.	10057.	272.
GALLATIN DR							
	SALMONID STREAM	86712.	2204.	54151.	1427.	32561.	777.
	SALMONID LAKE	18713.	507.	16231.	446.	2482.	61.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	1207.	38.	871.	27.	336.	11.
	UNDESIG LAKE MGMT	683.	20.	582.	17.	101.	3.
DRAINAGE PRESSURE ESTIMATES:							
		107315.	2769.	71835.	1917.	35480.	852.
JEFFERSON DR							
	SALMONID STREAM	22170.	593.	19161.	518.	3009.	75.
	SALMONID LAKE	11039.	283.	10736.	273.	303.	10.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	194.	5.	194.	5.	0.	0.
	UNDESIG STRM MGMT	649.	18.	383.	12.	266.	6.
	UNDESIG LAKE MGMT	297.	12.	184.	6.	113.	6.
DRAINAGE PRESSURE ESTIMATES:							
		34349.	911.	30658.	814.	3691.	97.



Table 5. Angling pressure in angler days by drainage by water type for the 1997 angling year  
Mar '97 through Feb '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
KOOTENAI DR							
	SALMONID STREAM	57179.	1314.	39252.	981.	17927.	333.
	SALMONID LAKE	74177.	1823.	41562.	1056.	32615.	767.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	1167.	34.	1066.	31.	101.	3.
	UNDESIG STRM MGMT	951.	30.	580.	19.	371.	11.
	UNDESIG LAKE MGMT	857.	21.	587.	13.	270.	8.
DRAINAGE PRESSURE ESTIMATES:							
		134331.	3222.	83047.	2100.	51284.	1122.
LITTLE MISSOURI DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	327.	9.	327.	9.	0.	0.
	NONSALMONID STREAM	1427.	38.	1393.	37.	34.	1.
	NONSALMONID LAKE	977.	24.	977.	24.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	163.	3.	69.	2.	94.	1.
DRAINAGE PRESSURE ESTIMATES:							
		2894.	74.	2766.	72.	128.	2.
MADISON DR							
	SALMONID STREAM	117881.	2976.	46794.	1258.	71087.	1718.
	SALMONID LAKE	47897.	1277.	20759.	586.	27138.	691.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	34.	1.	0.	0.	34.	1.
	UNDESIG STRM MGMT	1224.	34.	819.	22.	405.	12.
	UNDESIG LAKE MGMT	1283.	32.	711.	15.	572.	17.
DRAINAGE PRESSURE ESTIMATES:							
		168319.	4320.	69083.	1881.	99236.	2439.
MARIAS DR							
	SALMONID STREAM	8218.	242.	7227.	223.	991.	19.
	SALMONID LAKE	35267.	996.	33298.	930.	1969.	66.
	NONSALMONID STREAM	5528.	170.	5416.	168.	112.	2.
	NONSALMONID LAKE	12975.	329.	12807.	324.	168.	5.
	UNDESIG STRM MGMT	1951.	59.	1527.	43.	424.	16.
	UNDESIG LAKE MGMT	2126.	49.	1890.	42.	236.	7.
DRAINAGE PRESSURE ESTIMATES:							
		66065.	1845.	62165.	1730.	3900.	115.
MILK DR							
	SALMONID STREAM	6483.	193.	6314.	188.	169.	5.
	SALMONID LAKE	38741.	984.	37872.	962.	869.	22.
	NONSALMONID STREAM	9157.	262.	9022.	258.	135.	4.
	NONSALMONID LAKE	19395.	428.	18709.	413.	686.	15.
	UNDESIG STRM MGMT	851.	24.	851.	24.	0.	0.
	UNDESIG LAKE MGMT	2661.	67.	2459.	61.	202.	6.
DRAINAGE PRESSURE ESTIMATES:							
		77288.	1958.	75227.	1906.	2061.	52.

Table 5. Angling pressure in angler days by drainage by water type for the 1997 angling year  
Mar '97 through Feb '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		----RESIDENTS----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LOWER MISSOURI DR							
	SALMONID STREAM	16338.	455.	13463.	352.	2875.	103.
	SALMONID LAKE	17276.	470.	16955.	457.	321.	13.
	NONSALMONID STREAM	36694.	1036.	33328.	944.	3366.	92.
	NONSALMONID LAKE	114423.	3205.	97543.	2775.	16880.	430.
	UNDESIG STRM MGMT	287.	9.	220.	7.	67.	2.
	UNDESIG LAKE MGMT	5777.	157.	5575.	151.	202.	6.
DRAINAGE PRESSURE ESTIMATES:							
		190795.	5332.	167084.	4686.	23711.	646.
UPPER MISSOURI DR							
	SALMONID STREAM	206233.	5466.	162952.	4380.	43281.	1086.
	SALMONID LAKE	255785.	6665.	236091.	6144.	19694.	521.
	NONSALMONID STREAM	11568.	287.	10795.	264.	773.	23.
	NONSALMONID LAKE	446.	14.	446.	14.	0.	0.
	UNDESIG STRM MGMT	1589.	45.	1421.	40.	168.	5.
	UNDESIG LAKE MGMT	7959.	230.	7495.	220.	464.	10.
DRAINAGE PRESSURE ESTIMATES:							
		483580.	12707.	419200.	11062.	64380.	1645.
MUSSELSHELL DR							
	SALMONID STREAM	13601.	336.	12848.	313.	753.	23.
	SALMONID LAKE	22055.	573.	20919.	544.	1136.	29.
	NONSALMONID STREAM	59.	2.	59.	2.	0.	0.
	NONSALMONID LAKE	5573.	153.	5539.	152.	34.	1.
	UNDESIG STRM MGMT	1037.	22.	483.	15.	554.	7.
	UNDESIG LAKE MGMT	1553.	47.	1486.	45.	67.	2.
DRAINAGE PRESSURE ESTIMATES:							
		43878.	1133.	41334.	1071.	2544.	62.
ST MARY DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	5582.	149.	5345.	136.	237.	13.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	396.	6.	396.	6.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		5978.	155.	5741.	142.	237.	13.
SUN DR							
	SALMONID STREAM	14501.	393.	10109.	288.	4392.	105.
	SALMONID LAKE	22808.	676.	21608.	636.	1200.	40.
	NONSALMONID STREAM	67.	2.	0.	0.	67.	2.
	NONSALMONID LAKE	408.	12.	408.	12.	0.	0.
	UNDESIG STRM MGMT	1156.	32.	853.	23.	303.	9.
	UNDESIG LAKE MGMT	672.	16.	537.	12.	135.	4.
DRAINAGE PRESSURE ESTIMATES:							
		39612.	1131.	33515.	971.	6097.	160.



Table 5. Angling pressure in angler days by drainage by water type for the 1997 angling year  
Mar '97 through Feb '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LOWER YELLOWSTONE DR							
	SALMONID STREAM	10674.	257.	4519.	140.	6155.	117.
	SALMONID LAKE	7325.	203.	7091.	195.	234.	8.
	NONSALMONID STREAM	37660.	1091.	34027.	983.	3633.	108.
	NONSALMONID LAKE	28108.	767.	16546.	484.	11562.	283.
	UNDESIG STRM MGMT	76.	3.	76.	3.	0.	0.
	UNDESIG LAKE MGMT	4628.	122.	4478.	120.	150.	2.
DRAINAGE PRESSURE ESTIMATES:							
		88471.	2443.	66737.	1925.	21734.	518.
UPPER YELLOWSTONE DR							
	SALMONID STREAM	314373.	8280.	202086.	5199.	112287.	3081.
	SALMONID LAKE	94789.	2600.	84201.	2319.	10588.	281.
	NONSALMONID STREAM	11965.	295.	11061.	273.	904.	22.
	NONSALMONID LAKE	2856.	80.	2822.	79.	34.	1.
	UNDESIG STRM MGMT	1545.	45.	1041.	30.	504.	15.
	UNDESIG LAKE MGMT	3228.	91.	2055.	57.	1173.	34.
DRAINAGE PRESSURE ESTIMATES:							
		428756.	11391.	303266.	7957.	125490.	3434.
TOTAL							
	SALMONID STREAM	1443031.	37423.	959042.	25318.	483989.	12105.
	SALMONID LAKE	1046372.	27035.	861572.	22449.	184800.	4586.
	NONSALMONID STREAM	114217.	3187.	105193.	2933.	9024.	254.
	NONSALMONID LAKE	206483.	5480.	175082.	4713.	31401.	767.
	UNDESIG STRM MGMT	30155.	812.	16846.	487.	13309.	325.
	UNDESIG LAKE MGMT	40667.	1106.	35273.	953.	5394.	153.
STATEWIDE PRESSURE ESTIMATES:							
		2880925.	75043.	2153008.	56853.	727917.	18190.

## Angler Satisfaction Ratings

Licensed anglers fishing on Montana waters rated their fishing their fishing experience on a scale of 1 = poor to 5 = excellent for the 1997 license year. The average rating overall was 2.79 with residents and nonresidents rating their angling experience at 2.74 and 2.94 respectively (Table 6). Individual water satisfaction ratings are given in a separate report "Montana Angler Satisfaction Ratings 1997". Region 7 had the highest overall satisfaction rating of 2.92 while region 4 had the lowest satisfaction rating of 2.67. Nonresidents were always higher in their satisfaction ratings than residents for all the regions.

Table 6. Angler satisfaction ratings by region by water type for the 1997 angling year.

Reg      Water Type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- excellent 4's	5's	Avg Rate	poor 1's	----- 2's	----- excellent 3's	4's	5's	Avg Rate	poor 1's	----- 2's	----- excellent 3's	4's	5's
1	SALMONID STREAM	2.83	356	263	464	297	207	2.85	248	186	334	208	154	2.79	108	77	130	89	53
	SALMONID LAKE	2.72	664	394	676	350	350	2.65	537	315	530	245	241	2.98	127	79	146	105	109
	NONSALMONID STREAM	1.00	1	0	0	0	0	1.00	1	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	2.45	55	34	36	25	14	2.42	53	31	35	25	11	2.89	2	3	1	0	3
	UNDESIG STRM MGMT	2.70	8	6	9	8	2	2.72	5	3	3	6	1	2.67	3	3	6	2	1
	UNDESIG LAKE MGMT	2.60	25	9	17	12	9	2.60	19	8	15	7	8	2.60	6	1	2	5	1
	Regional Ratings:	2.75	1109	706	1202	692	582	2.71	863	543	917	491	415	2.89	246	163	285	201	167
2	SALMONID STREAM	2.81	537	527	832	478	306	2.82	363	364	576	314	220	2.79	174	163	256	164	86
	SALMONID LAKE	2.79	281	188	305	200	155	2.75	246	166	265	163	127	3.01	35	22	40	37	28
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.20	6	3	8	5	8	3.30	4	1	6	3	6	3.00	2	2	2	2	2
	UNDESIG LAKE MGMT	3.36	6	3	11	9	10	3.34	5	3	9	6	9	3.43	1	0	2	3	1
	Regional Ratings:	2.81	830	721	1156	692	479	2.80	618	534	856	486	362	2.83	212	187	300	206	117
3	SALMONID STREAM	2.93	933	826	1441	904	722	2.97	505	410	735	487	426	2.88	428	416	706	417	296
	SALMONID LAKE	2.59	733	391	625	352	266	2.55	577	281	448	254	196	2.70	156	110	177	98	70
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	4.00	0	0	1	0	1	3.00	0	0	1	0	0	5.00	0	0	0	0	1
	UNDESIG STRM MGMT	3.53	7	6	11	13	18	3.65	2	3	9	7	10	3.38	5	3	2	6	8
	UNDESIG LAKE MGMT	3.43	6	2	9	10	10	3.54	4	1	6	7	8	3.18	2	1	3	3	2
	Regional Ratings:	2.83	1679	1225	2087	1279	1017	2.81	1088	695	1199	755	640	2.85	591	530	888	524	377
4	SALMONID STREAM	2.95	440	366	630	407	367	2.95	357	287	512	314	297	2.97	83	79	118	93	70
	SALMONID LAKE	2.42	904	410	597	285	252	2.39	838	388	547	256	218	2.72	66	22	50	29	34
	NONSALMONID STREAM	2.65	81	47	79	33	39	2.60	76	44	74	30	32	3.17	5	3	5	3	7
	NONSALMONID LAKE	2.41	97	41	64	33	24	2.38	96	41	61	33	22	3.33	1	0	3	0	2
	UNDESIG STRM MGMT	3.09	5	4	11	11	3	3.08	4	2	8	8	2	3.10	1	2	3	3	1
	UNDESIG LAKE MGMT	3.17	27	15	28	27	32	3.09	25	15	26	26	25	3.92	2	0	2	1	7
	Regional Ratings:	2.67	1554	883	1409	796	717	2.63	1396	777	1228	667	596	2.93	158	106	181	129	121
5	SALMONID STREAM	3.04	496	428	693	495	517	2.83	403	316	476	283	272	3.46	93	112	217	212	245
	SALMONID LAKE	2.52	372	186	296	137	129	2.50	338	164	258	111	116	2.71	34	22	38	26	13
	NONSALMONID STREAM	2.48	29	33	31	13	9	2.47	28	32	28	12	9	2.67	1	1	3	1	0
	NONSALMONID LAKE	2.26	8	7	10	1	1	2.36	6	7	10	1	1	1.00	2	0	0	0	0
	UNDESIG STRM MGMT	2.56	5	3	4	2	2	2.50	5	3	2	2	2	3.00	0	0	2	0	0
	UNDESIG LAKE MGMT	3.22	13	8	12	5	21	3.18	9	7	11	3	15	3.36	4	1	1	2	6
	Regional Ratings:	2.87	923	665	1046	653	679	2.70	789	529	785	412	415	3.35	134	136	261	241	264
6	SALMONID STREAM	2.94	16	15	27	14	14	3.04	12	15	26	14	14	1.40	4	0	1	0	0
	SALMONID LAKE	2.75	88	69	110	64	44	2.73	87	67	105	62	41	3.31	1	2	5	2	3
	NONSALMONID STREAM	2.62	81	56	106	36	32	2.63	73	48	98	35	28	2.48	8	8	8	1	4
	NONSALMONID LAKE	2.88	175	157	323	162	118	2.85	159	140	282	144	97	3.10	16	17	41	18	21
	UNDESIG STRM MGMT	2.43	3	1	1	1	1	2.67	2	1	1	1	1	1.00	1	0	0	0	0
	UNDESIG LAKE MGMT	2.86	9	8	21	7	6	2.94	8	6	20	7	6	2.00	1	2	1	0	0
	Regional Ratings:	2.81	372	306	588	284	215	2.80	341	277	532	263	187	2.92	31	29	56	21	28



Table 6. Angler satisfaction ratings by region by water type for the 1997 angling year  
(continued).

Reg      Water Type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
7	SALMONID STREAM	3.13	6	13	20	13	10	3.45	1	5	12	8	7	2.76	5	8	8	5	3
	SALMONID LAKE	2.94	16	18	19	13	16	2.97	15	17	18	13	16	2.00	1	1	1	0	0
	NONSALMONID STREAM	2.82	76	49	106	52	45	2.74	69	43	89	42	34	3.24	7	6	17	10	11
	NONSALMONID LAKE	2.95	48	50	84	50	41	2.89	34	38	71	32	29	3.11	14	12	13	18	15
	UNDESIG STRM MGMT	2.00	0	1	0	0	0	2.00	0	1	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	3.24	6	7	13	10	10	3.23	6	7	11	9	10	3.33	0	0	2	1	0
Regional Ratings:		2.92	152	138	242	138	122	2.89	125	111	201	104	93	3.07	27	27	41	34	29
Total		2.92	2784	2438	4107	2608	2143	2.90	1889	1583	2671	1628	1390	2.97	895	855	1436	980	753
	SALMONID STREAM	2.60	3058	1656	2628	1401	1212	2.56	2638	1398	2171	1104	955	2.83	420	258	457	297	257
	NONSALMONID STREAM	2.67	268	185	322	134	125	2.64	247	167	289	119	103	2.99	21	18	33	15	22
	NONSALMONID LAKE	2.77	383	289	518	271	193	2.72	348	257	460	235	157	3.09	35	32	58	36	42
	UNDESIG STRM MGMT	3.05	62	41	82	59	60	3.07	34	19	38	34	32	3.02	28	22	44	25	28
	UNDESIG LAKE MGMT	3.09	92	52	111	80	93	3.08	76	47	98	65	81	3.18	16	5	13	15	17
Statewide Ratings:		2.79	6647	4661	7768	4553	3837	2.74	5232	3471	5727	3185	2718	2.94	1415	1190	2041	1368	1119

Angler satisfaction ratings were summarized by the twenty-two major drainages like those reported under the angling pressure section (Table 7). The ratings ranged from a high of 3.18 for the Little Missouri drainage to a low of 2.44 for the Musselshell drainage.

Table 7. Angler satisfaction ratings by drainage by water type for the 1997 angling year Mar '97 through Feb '98

Drain- age	Water type	TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
	BEAVERHEAD DR																		
	SALMONID STREAM	3.37	83	88	148	162	166	3.43	32	39	63	64	79	3.33	51	49	85	98	87
	SALMONID LAKE	2.53	190	93	145	81	62	2.57	115	47	79	52	41	2.47	75	46	66	29	21
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	5.00	0	0	0	0	1	.00	0	0	0	0	0	5.00	0	0	0	0	1
	UNDESIG LAKE MGMT	3.25	1	0	0	3	0	4.00	0	0	0	2	0	2.50	1	0	0	1	0
	Drainage Ratings:	2.98	274	181	293	246	229	2.96	147	86	142	118	120	3.00	127	95	151	128	109
	BIG HOLE DR																		
	SALMONID STREAM	2.94	179	141	292	176	136	3.00	100	76	158	103	87	2.87	79	65	134	73	49
	SALMONID LAKE	3.22	14	14	25	19	22	3.13	11	11	18	14	14	3.46	3	3	7	5	8
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	4.00	0	0	1	1	1	3.00	0	0	1	0	0	4.50	0	0	0	1	1
	UNDESIG LAKE MGMT	4.13	0	0	2	3	3	4.20	0	0	1	2	2	4.00	0	0	1	1	1
	Drainage Ratings:	2.98	193	155	320	199	162	3.03	111	87	178	119	103	2.92	82	68	142	80	59

Table 7. Angler satisfaction ratings by drainage by water type for the 1997 angling year Mar '97 through Feb '98 (continued)

Drain- age	Water type	TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
BITTERROOT DR	SALMONID STREAM	2.89	155	173	296	164	112	2.88	110	114	213	110	76	2.92	45	59	83	54	36
	SALMONID LAKE	2.65	30	13	19	19	11	2.57	27	11	16	14	9	3.07	3	2	3	5	2
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.08	4	1	2	2	4	3.50	2	0	1	2	3	2.40	2	1	1	0	1
	UNDESIG LAKE MGMT	3.63	1	1	2	0	4	3.71	1	1	1	0	4	3.00	0	0	1	0	0
	Drainage Ratings:	2.88	190	188	319	185	131	2.87	140	126	231	126	92	2.92	50	62	88	59	39
BLACKFOOT DR	SALMONID STREAM	2.67	141	126	157	85	67	2.65	101	92	108	57	48	2.72	40	34	49	28	19
	SALMONID LAKE	2.28	151	69	84	43	29	2.31	133	62	79	41	26	2.00	18	7	5	2	3
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	2.00	1	0	1	0	0	2.00	1	0	1	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	3.36	1	1	3	5	1	3.22	1	1	3	3	1	4.00	0	0	0	2	0
	Drainage Ratings:	2.53	294	196	245	133	97	2.50	236	155	191	101	75	2.61	58	41	54	32	22
LOWER CLARK FORK DR	SALMONID STREAM	2.63	178	166	213	123	63	2.66	111	113	139	83	42	2.59	67	53	74	40	21
	SALMONID LAKE	2.66	93	54	72	57	38	2.66	81	43	59	45	35	2.67	12	11	13	12	3
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	2.33	2	0	0	0	1	1.00	2	0	0	0	0	5.00	0	0	0	0	1
	UNDESIG STRM MGMT	2.91	1	3	5	0	2	2.71	1	2	3	0	1	3.25	0	1	2	0	1
	UNDESIG LAKE MGMT	2.69	4	1	5	1	2	3.38	1	0	4	1	2	1.60	3	1	1	0	0
	Drainage Ratings:	2.64	278	224	295	181	106	2.66	196	158	205	129	80	2.60	82	66	90	52	26
UPPER CLARK FORK DR	SALMONID STREAM	2.91	141	129	249	154	93	2.97	89	91	168	99	78	2.76	52	38	81	55	15
	SALMONID LAKE	3.06	98	99	188	123	104	3.01	84	87	161	96	83	3.29	14	12	27	27	21
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.56	1	0	3	3	2	3.50	1	0	2	1	2	3.67	0	0	1	2	0
	UNDESIG LAKE MGMT	3.25	3	1	5	3	4	3.08	3	1	4	2	3	4.00	0	0	1	1	1
	Drainage Ratings:	2.98	243	229	445	283	203	3.00	177	179	335	198	166	2.93	66	50	110	85	37
LOWER FLATHEAD DR	SALMONID STREAM	2.75	139	99	165	89	73	2.77	105	72	130	68	58	2.67	34	27	35	21	15
	SALMONID LAKE	2.64	388	210	372	173	168	2.60	327	174	313	140	128	2.80	61	36	59	33	40
	NONSALMONID STREAM	1.00	1	0	0	0	0	1.00	1	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	2.45	50	29	31	23	13	2.44	48	27	31	23	11	2.67	2	2	0	0	2
	UNDESIG STRM MGMT	2.50	3	2	0	2	1	2.75	1	1	0	2	0	2.25	2	1	0	0	1
	UNDESIG LAKE MGMT	2.33	13	8	8	4	3	2.33	11	8	8	4	2	2.33	2	0	0	0	1
	Drainage Ratings:	2.65	594	348	576	291	258	2.63	493	282	482	237	199	2.74	101	66	94	54	59
UPPER FLATHEAD DR	SALMONID STREAM	3.16	42	31	103	69	47	3.15	27	20	80	41	32	3.18	15	11	23	28	15
	SALMONID LAKE	2.49	71	53	48	31	24	2.52	53	46	41	22	21	2.36	18	7	7	9	3
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	2.75	1	1	0	2	0	2.50	1	0	0	1	0	3.00	0	1	0	1	0
	UNDESIG LAKE MGMT	3.17	6	0	2	5	5	3.14	5	0	2	2	5	3.25	1	0	0	3	0
	Drainage Ratings:	2.88	120	85	153	107	76	2.86	86	66	123	66	58	2.93	34	19	30	41	18



Table 7. Angler satisfaction ratings by drainage by water type for the 1997 angling year Mar '97 through Feb '98 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
GALLATIN DR																			
SALMONID STREAM		2.99	150	132	281	181	121	3.03	98	81	159	118	88	2.92	52	51	122	63	33
SALMONID LAKE		3.01	47	41	63	42	48	2.97	42	35	52	35	39	3.24	5	6	11	7	9
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		3.75	0	1	3	1	3	4.00	0	0	2	1	2	3.33	0	1	1	0	1
UNDESIG LAKE MGMT		2.75	3	1	1	1	2	2.67	3	0	1	0	2	3.00	0	1	0	1	0
Drainage Ratings:		3.00	200	175	348	225	174	3.02	143	116	214	154	131	2.96	57	59	134	71	43
JEFFERSON DR																			
SALMONID STREAM		2.82	55	41	70	19	45	2.90	41	31	59	15	40	2.45	14	10	11	4	5
SALMONID LAKE		2.66	37	19	38	21	14	2.65	36	19	37	21	13	3.00	1	0	1	0	1
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		3.00	0	0	1	0	0	3.00	0	0	1	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		3.69	1	2	2	3	5	3.50	0	2	2	2	2	4.00	1	0	0	1	3
UNDESIG LAKE MGMT		3.83	0	0	3	1	2	4.25	0	0	1	1	2	3.00	0	0	2	0	0
Drainage Ratings:		2.81	93	62	114	44	66	2.84	77	52	100	39	57	2.65	16	10	14	5	9
KOOTENAI DR																			
SALMONID STREAM		2.88	97	66	113	91	59	2.87	68	48	72	64	41	2.90	29	18	41	27	18
SALMONID LAKE		3.09	114	83	196	103	131	2.91	78	57	125	49	66	3.34	36	26	71	54	65
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		2.40	3	5	5	2	0	2.38	3	4	4	2	0	2.50	0	1	1	0	0
UNDESIG STRM MGMT		2.76	4	2	6	4	1	2.80	3	1	2	3	1	2.71	1	1	4	1	0
UNDESIG LAKE MGMT		2.90	3	0	3	3	1	2.83	2	0	2	1	1	3.00	1	0	1	2	0
Drainage Ratings:		2.99	221	156	323	203	192	2.88	154	110	205	119	109	3.18	67	46	118	84	83
LITTLE MISSOURI DR																			
SALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
SALMONID LAKE		4.25	0	0	1	1	2	4.25	0	0	1	1	2	.00	0	0	0	0	0
NONSALMONID STREAM		2.78	2	1	4	1	1	2.88	2	0	4	1	1	2.00	0	1	0	0	0
NONSALMONID LAKE		3.08	2	3	3	2	3	3.08	2	3	3	2	3	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		3.50	0	0	1	1	0	3.00	0	0	1	0	0	4.00	0	0	0	1	0
Drainage Ratings:		3.18	4	4	9	5	6	3.19	4	3	9	4	6	3.00	0	1	0	1	0
MADISON DR																			
SALMONID STREAM		2.68	272	261	398	200	107	2.74	117	98	153	91	54	2.64	155	163	245	109	53
SALMONID LAKE		2.74	108	96	134	88	50	2.70	53	50	60	42	23	2.77	55	46	74	46	27
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		5.00	0	0	0	0	1	.00	0	0	0	0	0	5.00	0	0	0	0	1
UNDESIG STRM MGMT		2.58	4	2	2	3	1	3.50	0	1	2	2	1	1.67	4	1	0	1	0
UNDESIG LAKE MGMT		3.11	2	1	2	2	2	3.14	1	1	2	2	1	3.00	1	0	0	0	1
Drainage Ratings:		2.70	386	360	536	293	161	2.74	171	150	217	137	79	2.67	215	210	319	156	82
MARIAS DR																			
SALMONID STREAM		2.66	19	17	17	17	6	2.57	19	16	13	15	5	3.38	0	1	4	2	1
SALMONID LAKE		2.53	120	74	82	49	46	2.52	110	74	78	46	41	2.68	10	0	4	3	5
NONSALMONID STREAM		2.61	19	15	20	9	8	2.58	19	15	19	8	8	3.50	0	0	1	1	0
NONSALMONID LAKE		2.58	44	17	38	17	16	2.53	44	17	37	17	14	4.33	0	0	1	0	2
UNDESIG STRM MGMT		3.50	0	2	1	4	1	3.80	0	1	0	3	1	3.00	0	1	1	1	0
UNDESIG LAKE MGMT		2.45	8	1	7	2	2	2.24	7	1	7	2	0	3.67	1	0	0	0	2
Drainage Ratings:		2.57	210	126	165	98	79	2.54	199	124	154	91	69	3.07	11	2	11	7	10

Table 7. Angler satisfaction ratings by drainage by water type for the 1997 angling year Mar '97 through Feb '98 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
MILK DR																			
SALMONID STREAM		2.97	8	14	23	10	9	3.03	6	14	21	10	9	2.00	2	0	2	0	0
SALMONID LAKE		2.84	66	55	97	56	41	2.83	65	53	93	54	38	3.33	1	2	4	2	3
NONSALMONID STREAM		2.84	14	12	23	9	10	2.94	11	11	22	9	10	1.60	3	1	1	0	0
NONSALMONID LAKE		3.16	12	21	48	25	20	3.17	11	19	47	23	19	3.00	1	2	1	2	1
UNDESIG STRM MGMT		2.83	2	1	0	2	1	2.83	2	1	0	2	1	1.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.85	5	4	17	5	2	2.87	5	3	16	5	2	2.50	0	1	1	0	0
Drainage Ratings:		2.92	107	107	208	107	83	2.93	100	101	199	103	79	2.73	7	6	9	4	4
LOWER MISSOURI DR																			
SALMONID STREAM		3.15	32	23	57	36	40	3.24	23	20	46	33	35	2.74	9	3	11	3	5
SALMONID LAKE		2.42	71	29	37	28	18	2.44	67	28	34	28	18	1.88	4	1	3	0	0
NONSALMONID STREAM		2.56	98	56	102	36	36	2.55	91	48	94	34	31	2.67	7	8	8	2	5
NONSALMONID LAKE		2.85	167	142	280	144	102	2.81	152	127	238	128	82	3.10	15	15	42	16	20
UNDESIG STRM MGMT		2.00	2	1	2	0	0	2.25	1	1	2	0	0	1.00	1	0	0	0	0
UNDESIG LAKE MGMT		3.31	7	6	9	7	13	3.37	6	5	8	7	12	2.75	1	1	1	0	1
Drainage Ratings:		2.78	377	257	487	251	209	2.77	340	229	422	230	178	2.90	37	28	65	21	31
UPPER MISSOURI DR																			
SALMONID STREAM		2.93	404	324	557	350	324	2.93	325	253	459	265	266	2.93	79	71	98	85	58
SALMONID LAKE		2.35	863	350	561	254	189	2.32	804	325	510	222	164	2.68	59	25	51	32	25
NONSALMONID STREAM		2.74	31	21	40	15	18	2.67	28	19	38	14	12	3.36	3	2	2	1	6
NONSALMONID LAKE		2.75	1	1	0	2	0	2.75	1	1	0	2	0	1.00	0	0	0	0	0
UNDESIG STRM MGMT		3.25	3	0	9	5	3	3.28	3	0	7	5	3	3.00	0	0	2	0	0
UNDESIG LAKE MGMT		3.22	14	10	15	14	20	3.13	14	10	14	13	17	4.40	0	0	1	1	3
Drainage Ratings:		2.64	1316	706	1182	640	554	2.60	1175	608	1028	521	462	2.87	141	98	154	119	92
MUSSELSHELL DR																			
SALMONID STREAM		2.91	31	22	31	18	27	2.84	29	21	30	16	22	3.64	2	1	1	2	5
SALMONID LAKE		2.29	92	36	61	21	18	2.26	91	35	56	20	17	3.00	1	1	5	1	1
NONSALMONID STREAM		1.00	1	0	0	0	0	1.00	1	0	0	0	0	1.00	0	0	0	0	0
NONSALMONID LAKE		2.00	45	17	19	7	4	2.01	44	17	19	7	4	1.00	1	0	0	0	0
UNDESIG STRM MGMT		2.56	4	0	3	0	2	2.14	4	0	2	0	1	4.00	0	0	1	0	1
UNDESIG LAKE MGMT		3.56	0	3	6	2	5	3.56	0	3	6	2	5	1.00	0	0	0	0	0
Drainage Ratings:		2.44	173	78	120	48	56	2.40	169	76	113	45	49	3.30	4	2	7	3	7
ST MARY DR																			
SALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
SALMONID LAKE		3.10	10	10	11	7	14	3.02	10	10	9	7	12	4.00	0	0	2	0	2
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		3.67	0	0	2	0	1	3.67	0	0	2	0	1	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
Drainage Ratings:		3.13	10	10	13	7	15	3.06	10	10	11	7	13	4.00	0	0	2	0	2
SUN DR																			
SALMONID STREAM		2.95	31	17	37	32	20	2.94	24	10	27	24	14	2.97	7	7	10	8	6
SALMONID LAKE		2.58	94	52	75	33	41	2.55	88	49	73	30	36	2.89	6	3	2	3	5
NONSALMONID STREAM		3.00	0	0	1	0	0	.00	0	0	0	0	0	3.00	0	0	1	0	0
NONSALMONID LAKE		2.57	3	0	1	3	0	2.57	3	0	1	3	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		3.29	1	1	1	3	1	4.00	0	0	1	1	1	2.75	1	1	0	2	0
UNDESIG LAKE MGMT		2.82	4	0	2	4	1	2.78	3	0	2	4	0	3.00	1	0	0	0	1
Drainage Ratings:		2.71	133	70	117	75	63	2.67	118	59	104	62	51	2.94	15	11	13	13	12



Table 7. Angler satisfaction ratings by drainage by water type for the 1997 angling year Mar '97 through Feb '98 (continued)

Drain- age	Water type	TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
LOWER YELLOWSTONE DR	SALMONID STREAM	3.13	6	13	20	13	10	3.45	1	5	12	8	7	2.76	5	8	8	5	3
	SALMONID LAKE	2.85	15	17	18	12	12	2.89	14	16	17	12	12	2.00	1	1	1	0	0
	NONSALMONID STREAM	2.82	73	47	101	51	43	2.74	66	42	84	41	32	3.26	7	5	17	10	11
	NONSALMONID LAKE	2.92	46	47	81	45	37	2.85	32	35	68	27	22	3.11	14	12	13	18	15
	UNDESIG STRM MGMT	2.00	0	1	0	0	0	2.00	0	1	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	3.31	4	7	10	9	9	3.32	4	7	8	9	9	3.00	0	0	2	0	0
	Drainage Ratings:	2.91	144	132	230	130	111	2.87	117	106	189	97	82	3.07	27	26	41	33	29
UPPER YELLOWSTONE DR	SALMONID STREAM	3.02	621	555	880	619	618	2.84	463	369	561	344	309	3.31	158	186	319	275	309
	SALMONID LAKE	2.51	386	189	301	140	130	2.49	349	166	260	113	117	2.69	37	23	41	27	13
	NONSALMONID STREAM	2.48	29	33	31	13	9	2.47	28	32	28	12	9	2.67	1	1	3	1	0
	NONSALMONID LAKE	2.23	8	7	9	1	1	2.33	6	7	9	1	1	1.00	2	0	0	0	0
	UNDESIG STRM MGMT	3.37	2	4	3	5	5	3.09	2	3	1	2	3	3.75	0	1	2	3	2
	UNDESIG LAKE MGMT	3.12	13	7	8	5	17	3.03	9	6	7	3	11	3.36	4	1	1	2	6
	Drainage Ratings:	2.88	1059	795	1232	783	780	2.71	857	583	866	475	450	3.25	202	212	366	308	330
Total	SALMONID STREAM	2.92	2784	2438	4107	2608	2143	2.90	1889	1583	2671	1628	1390	2.97	895	855	1436	980	753
	SALMONID LAKE	2.60	3058	1656	2628	1401	1212	2.56	2638	1398	2171	1104	955	2.83	420	258	457	297	257
	NONSALMONID STREAM	2.67	268	185	322	134	125	2.64	247	167	289	119	103	2.99	21	18	33	15	22
	NONSALMONID LAKE	2.77	383	289	518	271	199	2.72	348	257	460	235	157	3.09	35	32	58	36	42
	UNDESIG STRM MGMT	3.05	62	41	82	59	60	3.07	34	19	38	34	32	3.02	28	22	44	25	28
	UNDESIG LAKE MGMT	3.09	92	52	111	80	98	3.08	76	47	98	65	81	3.18	16	5	13	15	17
	Statewide Ratings:	2.79	6647	4661	7768	4553	3837	2.74	5232	3471	5727	3185	2718	2.94	1415	1190	2041	1368	1119

## 1997 SUMMER

The "summer" season for angling in Montana is considered that period of the year between the first of May through the end of September. In 1997 2,171,850 (75.4%) days of angling pressure occurred during this period (Table 8). Percentages of angling pressure within the regions for the summer period was very similar to the entire year ranging from 68.4% for region 7 to 77.8% for region 3.

Residents accounted for 68.9% of the "summer" angling pressure (1,497,264 angling days). Within the regions the residents comprised anywhere from as high as 88.2% of the "summer" angling pressure in region 6 to as low as 52.8% of the pressure in region 3.

Table 8. Angling pressure in angler days by region by water type for the "summer" season of May '97 through September '97

REG	WATER TYPE	-----TOTALS-----		----RESIDENTS----		--NON-RESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
1	SALMONID STREAM	140088.	3877.	99517.	2908.	40571.	969.
	SALMONID LAKE	202825.	5781.	143658.	4296.	59167.	1485.
	NONSALMONID STREAM	92.	4.	92.	4.	0.	0.
	NONSALMONID LAKE	10868.	315.	8980.	285.	1888.	30.
	UNDESIG STRM MGMT	1876.	56.	937.	30.	939.	26.
	UNDESIG LAKE MGMT	4228.	124.	3204.	95.	1024.	29.
	REGIONAL PRESSURE ESTIMATES:	359977.	10157.	256388.	7618.	103589.	2539.
2	SALMONID STREAM	213601.	5931.	143885.	4177.	69716.	1754.
	SALMONID LAKE	92064.	2503.	68842.	2033.	23222.	470.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	2157.	49.	1170.	34.	987.	15.
	UNDESIG LAKE MGMT	3093.	89.	2555.	73.	538.	16.
	REGIONAL PRESSURE ESTIMATES:	310915.	8572.	216452.	6317.	94463.	2255.
3	SALMONID STREAM	392712.	10841.	184850.	5555.	207862.	5286.
	SALMONID LAKE	180235.	5331.	116900.	3679.	63335.	1652.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	228.	6.	194.	5.	34.	1.
	UNDESIG STRM MGMT	4620.	139.	3007.	92.	1613.	47.
	UNDESIG LAKE MGMT	2554.	78.	1466.	43.	1088.	35.
	REGIONAL PRESSURE ESTIMATES:	580349.	16395.	306417.	9374.	273932.	7021.
4	SALMONID STREAM	175591.	5187.	126389.	3927.	49202.	1260.
	SALMONID LAKE	182083.	5665.	163176.	5144.	18907.	521.
	NONSALMONID STREAM	17716.	552.	16295.	509.	1421.	43.
	NONSALMONID LAKE	14024.	459.	13660.	444.	364.	15.
	UNDESIG STRM MGMT	4113.	124.	3151.	92.	962.	32.
	UNDESIG LAKE MGMT	8096.	267.	7160.	243.	936.	24.
	REGIONAL PRESSURE ESTIMATES:	401623.	12254.	329831.	10359.	71792.	1895.
5	SALMONID STREAM	190412.	5690.	110539.	3399.	79873.	2291.
	SALMONID LAKE	72021.	2156.	62519.	1907.	9502.	249.
	NONSALMONID STREAM	5942.	195.	5268.	175.	674.	20.
	NONSALMONID LAKE	1384.	49.	1350.	48.	34.	1.
	UNDESIG STRM MGMT	1457.	34.	903.	27.	554.	7.
	UNDESIG LAKE MGMT	3154.	96.	1914.	60.	1240.	36.
	REGIONAL PRESSURE ESTIMATES:	274370.	8220.	182493.	5616.	91877.	2604.



Table 8. Angling pressure in angler days by region by water type for the "summer" season of May '97 through September '97 (continued)

REG	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		--NON-RESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
6	SALMONID STREAM	6416.	201.	6045.	190.	371.	11.
	SALMONID LAKE	28313.	896.	27412.	872.	901.	24.
	NONSALMONID STREAM	26189.	870.	23260.	791.	2929.	79.
	NONSALMONID LAKE	102459.	3098.	87208.	2696.	15251.	402.
	UNDESIG STRM MGMT	686.	20.	619.	18.	67.	2.
	UNDESIG LAKE MGMT	4322.	136.	4019.	127.	303.	9.
	REGIONAL PRESSURE ESTIMATES:	168385.	5221.	148563.	4694.	19822.	527.
7	SALMONID STREAM	5588.	184.	3943.	126.	1645.	58.
	SALMONID LAKE	5727.	189.	5493.	181.	234.	8.
	NONSALMONID STREAM	29547.	931.	25880.	822.	3667.	109.
	NONSALMONID LAKE	19765.	647.	13628.	448.	6137.	199.
	UNDESIG STRM MGMT	76.	3.	76.	3.	0.	0.
	UNDESIG LAKE MGMT	3216.	111.	3088.	109.	128.	2.
	REGIONAL PRESSURE ESTIMATES:	63919.	2065.	52108.	1689.	11811.	376.
TOTAL	SALMONID STREAM	1124408.	31911.	675168.	20282.	449240.	11629.
	SALMONID LAKE	763268.	22521.	588000.	18112.	175268.	4409.
	NONSALMONID STREAM	79486.	2552.	70795.	2301.	8691.	251.
	NONSALMONID LAKE	148728.	4574.	125020.	3926.	23708.	648.
	UNDESIG STRM MGMT	27297.	759.	14875.	442.	12422.	317.
	UNDESIG LAKE MGMT	28663.	901.	23406.	750.	5257.	151.
	STATEWIDE PRESSURE ESTIMATES:	2171850.	63218.	1497264.	45813.	674586.	17405.

"Summer" angling pressure by drainage (Table 9) ranged from 342,342 angler days for the upper Missouri River drainage to 1,647 angler days for the Little Missouri River drainage.

Angling pressure for residents by drainage ranged from a low of 34.4% for the Madison River drainage to a high of 95.7% for the Milk drainage.

Table 9. Angling pressure in angler days by drainage by water type for the 1997 "summer" angling season May '97 through September '97

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
BEAVERHEAD DR							
	SALMONID STREAM	64349.	1806.	22621.	701.	41728.	1105.
	SALMONID LAKE	45053.	1283.	18209.	584.	26844.	699.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	34.	1.	0.	0.	34.	1.
	UNDESIG LAKE MGMT	295.	8.	194.	5.	101.	3.
DRAINAGE PRESSURE ESTIMATES:							
		109731.	3098.	41024.	1290.	68707.	1808.
BIG HOLE DR							
	SALMONID STREAM	86603.	2342.	44469.	1321.	42134.	1021.
	SALMONID LAKE	6123.	158.	3849.	110.	2274.	48.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	224.	7.	89.	3.	135.	4.
	UNDESIG LAKE MGMT	295.	9.	94.	3.	201.	6.
DRAINAGE PRESSURE ESTIMATES:							
		93245.	2516.	48501.	1437.	44744.	1079.
BITTERROOT DR							
	SALMONID STREAM	84176.	2308.	57902.	1672.	26274.	636.
	SALMONID LAKE	5615.	160.	3953.	117.	1662.	43.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	1028.	22.	459.	14.	569.	8.
	UNDESIG LAKE MGMT	841.	24.	740.	21.	101.	3.
DRAINAGE PRESSURE ESTIMATES:							
		91660.	2514.	63054.	1824.	28606.	690.
BLACKFOOT DR							
	SALMONID STREAM	40161.	1102.	28070.	807.	12091.	295.
	SALMONID LAKE	22964.	682.	20576.	628.	2388.	54.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	128.	4.	128.	4.	0.	0.
	UNDESIG LAKE MGMT	650.	19.	516.	15.	134.	4.
DRAINAGE PRESSURE ESTIMATES:							
		63903.	1807.	49290.	1454.	14613.	353.
LOWER CLARK FORK DR							
	SALMONID STREAM	61880.	1761.	43063.	1252.	18817.	509.
	SALMONID LAKE	22282.	631.	17622.	525.	4660.	106.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	1963.	32.	412.	12.	1551.	20.
	UNDESIG STRM MGMT	812.	18.	362.	10.	450.	8.
	UNDESIG LAKE MGMT	1202.	34.	831.	23.	371.	11.
DRAINAGE PRESSURE ESTIMATES:							
		88139.	2476.	62290.	1822.	25849.	654.



Table 9. Angling pressure in angler days by drainage by water type for the 1997 "summer" angling season May '97 through September '97 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
UPPER CLARK FORK DR							
	SALMONID STREAM	53838.	1540.	34118.	1019.	19720.	521.
	SALMONID LAKE	60631.	1585.	42342.	1231.	18289.	354.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	538.	15.	436.	12.	102.	3.
	UNDESIG LAKE MGMT	1092.	32.	856.	25.	236.	7.
DRAINAGE PRESSURE ESTIMATES:							
		116099.	3172.	77752.	2287.	38347.	885.
LOWER FLATHEAD DR							
	SALMONID STREAM	44053.	1271.	34337.	1018.	9716.	253.
	SALMONID LAKE	108594.	3156.	85181.	2561.	23413.	595.
	NONSALMONID STREAM	92.	4.	92.	4.	0.	0.
	NONSALMONID LAKE	7940.	254.	7704.	247.	236.	7.
	UNDESIG STRM MGMT	441.	12.	142.	5.	299.	7.
	UNDESIG LAKE MGMT	1532.	44.	1420.	42.	112.	2.
DRAINAGE PRESSURE ESTIMATES:							
		162652.	4741.	128876.	3877.	33776.	864.
UPPER FLATHEAD DR							
	SALMONID STREAM	25579.	712.	18211.	518.	7368.	194.
	SALMONID LAKE	14027.	420.	11811.	356.	2216.	64.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	213.	6.	78.	2.	135.	4.
	UNDESIG LAKE MGMT	1527.	46.	1189.	36.	338.	10.
DRAINAGE PRESSURE ESTIMATES:							
		41346.	1184.	31289.	912.	10057.	272.
GALLATIN DR							
	SALMONID STREAM	64620.	1800.	36175.	1077.	28445.	723.
	SALMONID LAKE	15011.	446.	12529.	385.	2482.	61.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	1207.	38.	871.	27.	336.	11.
	UNDESIG LAKE MGMT	683.	20.	582.	17.	101.	3.
DRAINAGE PRESSURE ESTIMATES:							
		81521.	2304.	50157.	1506.	31364.	798.
JEFFERSON DR							
	SALMONID STREAM	16463.	480.	13557.	406.	2906.	74.
	SALMONID LAKE	6827.	217.	6524.	207.	303.	10.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	194.	5.	194.	5.	0.	0.
	UNDESIG STRM MGMT	649.	18.	383.	12.	266.	6.
	UNDESIG LAKE MGMT	297.	12.	184.	6.	113.	6.
DRAINAGE PRESSURE ESTIMATES:							
		24430.	732.	20842.	636.	3588.	96.

Table 9. Angling pressure in angler days by drainage by water type for the 1997 "summer" angling season May '97 through September '97 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
KOOTENAI DR							
	SALMONID STREAM	44174.	1119.	27873.	804.	16301.	315.
	SALMONID LAKE	60665.	1647.	30938.	909.	29727.	738.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	965.	29.	864.	26.	101.	3.
	UNDESIG STRM MGMT	951.	30.	580.	19.	371.	11.
	UNDESIG LAKE MGMT	615.	18.	345.	10.	270.	8.
DRAINAGE PRESSURE ESTIMATES:							
		107370.	2843.	60600.	1768.	46770.	1075.
LITTLE MISSOURI DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	246.	8.	246.	8.	0.	0.
	NONSALMONID STREAM	666.	21.	632.	20.	34.	1.
	NONSALMONID LAKE	572.	19.	572.	19.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	163.	3.	69.	2.	94.	1.
DRAINAGE PRESSURE ESTIMATES:							
		1647.	51.	1519.	49.	128.	2.
MADISON DR							
	SALMONID STREAM	97737.	2630.	31327.	976.	66410.	1654.
	SALMONID LAKE	41909.	1177.	16362.	517.	25547.	660.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	34.	1.	0.	0.	34.	1.
	UNDESIG STRM MGMT	1145.	32.	740.	20.	405.	12.
	UNDESIG LAKE MGMT	812.	24.	240.	7.	572.	17.
DRAINAGE PRESSURE ESTIMATES:							
		141637.	3864.	48669.	1520.	92968.	2344.
MARIAS DR							
	SALMONID STREAM	6951.	220.	5960.	201.	991.	19.
	SALMONID LAKE	27431.	861.	25505.	797.	1926.	64.
	NONSALMONID STREAM	4395.	145.	4283.	143.	112.	2.
	NONSALMONID LAKE	8684.	267.	8516.	262.	168.	5.
	UNDESIG STRM MGMT	1906.	58.	1482.	42.	424.	16.
	UNDESIG LAKE MGMT	749.	24.	513.	17.	236.	7.
DRAINAGE PRESSURE ESTIMATES:							
		50116.	1575.	46259.	1462.	3857.	113.
MILK DR							
	SALMONID STREAM	5194.	165.	5025.	160.	169.	5.
	SALMONID LAKE	24445.	769.	23576.	747.	869.	22.
	NONSALMONID STREAM	7195.	227.	7060.	223.	135.	4.
	NONSALMONID LAKE	9190.	287.	8504.	272.	686.	15.
	UNDESIG STRM MGMT	538.	16.	538.	16.	0.	0.
	UNDESIG LAKE MGMT	1367.	43.	1165.	37.	202.	6.
DRAINAGE PRESSURE ESTIMATES:							
		47929.	1507.	45868.	1455.	2061.	52.



Table 9. Angling pressure in angler days by drainage by water type for the 1997 "summer" angling season May '97 through September '97 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LOWER MISSOURI DR							
	SALMONID STREAM	12022.	384.	9190.	283.	2832.	101.
	SALMONID LAKE	11284.	374.	10963.	361.	321.	13.
	NONSALMONID STREAM	25250.	834.	21884.	742.	3366.	92.
	NONSALMONID LAKE	95350.	2886.	80623.	2490.	14727.	396.
	UNDESIG STRM MGMT	287.	9.	220.	7.	67.	2.
	UNDESIG LAKE MGMT	3979.	127.	3777.	121.	202.	6.
DRAINAGE PRESSURE ESTIMATES:							
		148172.	4614.	126657.	4004.	21515.	610.
UPPER MISSOURI DR							
	SALMONID STREAM	155102.	4550.	112214.	3471.	42888.	1079.
	SALMONID LAKE	172603.	5348.	153136.	4830.	19467.	518.
	NONSALMONID STREAM	7146.	219.	6476.	197.	670.	22.
	NONSALMONID LAKE	446.	14.	446.	14.	0.	0.
	UNDESIG STRM MGMT	1148.	39.	980.	34.	168.	5.
	UNDESIG LAKE MGMT	5897.	192.	5433.	182.	464.	10.
DRAINAGE PRESSURE ESTIMATES:							
		342342.	10362.	278685.	8728.	63657.	1634.
MUSSELSHELL DR							
	SALMONID STREAM	9502.	282.	8749.	259.	753.	23.
	SALMONID LAKE	14586.	447.	13450.	418.	1136.	29.
	NONSALMONID STREAM	59.	2.	59.	2.	0.	0.
	NONSALMONID LAKE	3247.	116.	3213.	115.	34.	1.
	UNDESIG STRM MGMT	1037.	22.	483.	15.	554.	7.
	UNDESIG LAKE MGMT	1110.	37.	1043.	35.	67.	2.
DRAINAGE PRESSURE ESTIMATES:							
		29541.	906.	26997.	844.	2544.	62.
ST MARY DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	3484.	114.	3247.	101.	237.	13.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	73.	2.	73.	2.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		3557.	116.	3320.	103.	237.	13.
SUN DR							
	SALMONID STREAM	12107.	342.	8126.	241.	3981.	101.
	SALMONID LAKE	19009.	606.	17809.	566.	1200.	40.
	NONSALMONID STREAM	67.	2.	0.	0.	67.	2.
	NONSALMONID LAKE	328.	11.	328.	11.	0.	0.
	UNDESIG STRM MGMT	1156.	32.	853.	23.	303.	9.
	UNDESIG LAKE MGMT	340.	12.	205.	8.	135.	4.
DRAINAGE PRESSURE ESTIMATES:							
		33007.	1005.	27321.	849.	5686.	156.

Table 9. Angling pressure in angler days by drainage by water type for the 1997 "summer" angling season May '97 through September '97 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LOWER YELLOWSTONE DR							
	SALMONID STREAM	5588.	184.	3943.	126.	1645.	58.
	SALMONID LAKE	5298.	175.	5064.	167.	234.	8.
	NONSALMONID STREAM	28674.	903.	25041.	795.	3633.	108.
	NONSALMONID LAKE	18427.	605.	12290.	406.	6137.	199.
	UNDESIG STRM MGMT	76.	3.	76.	3.	0.	0.
	UNDESIG LAKE MGMT	2672.	95.	2638.	94.	34.	1.
DRAINAGE PRESSURE ESTIMATES:							
		60735.	1965.	49052.	1591.	11683.	374.
UPPER YELLOWSTONE DR							
	SALMONID STREAM	234309.	6913.	130238.	3970.	104071.	2943.
	SALMONID LAKE	75181.	2257.	65108.	1987.	10073.	270.
	NONSALMONID STREAM	5942.	195.	5268.	175.	674.	20.
	NONSALMONID LAKE	1315.	46.	1281.	45.	34.	1.
	UNDESIG STRM MGMT	1467.	43.	963.	28.	504.	15.
	UNDESIG LAKE MGMT	2545.	78.	1372.	44.	1173.	34.
DRAINAGE PRESSURE ESTIMATES:							
		320759.	9532.	204230.	6249.	116529.	3283.
TOTAL							
	SALMONID STREAM	1124408.	31911.	675168.	20282.	449240.	11629.
	SALMONID LAKE	763268.	22521.	588000.	18112.	175268.	4409.
	NONSALMONID STREAM	79486.	2552.	70795.	2301.	8691.	251.
	NONSALMONID LAKE	148728.	4574.	125020.	3926.	23708.	648.
	UNDESIG STRM MGMT	27297.	759.	14875.	442.	12422.	317.
	UNDESIG LAKE MGMT	28663.	901.	23406.	750.	5257.	151.
STATEWIDE PRESSURE ESTIMATES:							
		2171850.	63218.	1497264.	45813.	674586.	17405.

### Angler Satisfaction Ratings - Summer

The average rating overall for summer was 2.79 with residents and nonresidents rating their angling experience at 2.73 and 2.94 respectively (Table 10). Individual water satisfaction ratings for the "summer" season are given in a separate report "Montana Angler Satisfaction Ratings 1997".

Region 7 had the highest overall satisfaction rating of 2.95 while region 4 had the lowest satisfaction rating of 2.66. Nonresidents were always higher or equal in their satisfaction ratings than residents for all the regions.



Table 10. Angler satisfaction ratings by region by water type for the 1997 "summer angling season of May '97 through September '97

Reg      Water Type		TOTAL						RESIDENT						NONRESIDENT					
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
1	SALMONID STREAM	2.85	304	227	418	259	182	2.88	197	151	293	171	130	2.78	107	76	125	88	52
	SALMONID LAKE	2.73	563	329	584	297	299	2.63	440	252	441	193	191	2.99	123	77	143	104	108
	NONSALMONID STREAM	1.00	1	0	0	0	0	1.00	1	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	2.37	38	25	21	15	9	2.31	37	22	20	15	6	3.13	1	3	1	0	3
	UNDESIG STRM MGMT	2.70	8	6	9	8	2	2.72	5	3	3	6	1	2.67	3	3	6	2	1
	UNDESIG LAKE MGMT	2.55	22	7	13	12	6	2.50	17	6	11	7	5	2.71	5	1	2	5	1
	Regional Ratings:	2.76	936	594	1045	591	498	2.71	697	434	768	392	333	2.90	239	160	277	199	165
2	SALMONID STREAM	2.82	466	455	714	420	272	2.84	294	294	470	260	189	2.78	172	161	244	160	83
	SALMONID LAKE	2.80	228	148	255	167	127	2.77	193	126	215	132	100	2.98	35	22	40	35	27
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.20	5	3	6	4	7	3.31	3	1	5	2	5	3.00	2	2	1	2	2
	UNDESIG LAKE MGMT	3.34	6	3	11	8	10	3.32	5	3	9	5	9	3.43	1	0	2	3	1
	Regional Ratings:	2.82	705	609	986	599	416	2.82	495	424	699	399	303	2.82	210	185	287	200	113
3	SALMONID STREAM	2.93	814	715	1281	778	637	2.99	396	310	594	376	350	2.88	418	405	687	402	287
	SALMONID LAKE	2.57	602	316	495	283	211	2.53	452	212	331	190	150	2.67	150	104	164	93	61
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	4.00	0	0	1	0	1	3.00	0	0	1	0	0	5.00	0	0	0	0	1
	UNDESIG STRM MGMT	3.52	7	6	9	13	17	3.64	2	3	7	7	9	3.38	5	3	2	6	8
	UNDESIG LAKE MGMT	3.53	5	1	8	8	10	3.71	3	0	5	5	8	3.18	2	1	3	3	2
	Regional Ratings:	2.83	1428	1038	1794	1082	876	2.82	853	525	938	578	517	2.84	575	513	856	504	359
4	SALMONID STREAM	2.94	375	308	528	344	302	2.93	292	231	412	253	232	2.97	83	77	116	91	70
	SALMONID LAKE	2.38	765	335	483	228	197	2.34	701	313	433	199	163	2.73	64	22	50	29	34
	NONSALMONID STREAM	2.75	61	32	68	28	35	2.71	56	29	63	25	29	3.09	5	3	5	3	6
	NONSALMONID LAKE	2.43	79	30	49	28	21	2.40	78	30	46	28	19	3.33	1	0	3	0	2
	UNDESIG STRM MGMT	3.14	3	4	10	8	3	3.17	2	2	7	5	2	3.10	1	2	3	3	1
	UNDESIG LAKE MGMT	3.25	21	11	23	22	29	3.17	19	11	21	21	22	3.92	2	0	2	1	7
	Regional Ratings:	2.66	1304	720	1161	658	587	2.61	1148	616	982	531	467	2.93	156	104	179	127	120
5	SALMONID STREAM	3.03	399	369	567	400	416	2.76	311	260	361	199	185	3.45	88	109	206	201	231
	SALMONID LAKE	2.52	311	169	262	126	102	2.49	279	148	227	101	89	2.73	32	21	35	25	13
	NONSALMONID STREAM	2.65	16	18	25	6	9	2.62	16	17	22	5	9	3.00	0	1	3	1	0
	NONSALMONID LAKE	2.11	6	5	6	1	0	2.25	4	5	6	1	0	1.00	2	0	0	0	0
	UNDESIG STRM MGMT	2.60	5	2	4	2	2	2.54	5	2	2	2	2	3.00	0	0	2	0	0
	UNDESIG LAKE MGMT	3.30	11	6	9	5	19	3.28	7	5	6	3	13	3.36	4	1	1	2	6
	Regional Ratings:	2.87	748	569	873	540	548	2.66	622	437	626	311	298	3.35	126	132	247	229	250
6	SALMONID STREAM	3.03	11	13	19	11	13	3.16	7	13	18	11	13	1.40	4	0	1	0	0
	SALMONID LAKE	2.75	72	60	81	52	38	2.72	71	58	76	50	35	3.31	1	2	5	2	3
	NONSALMONID STREAM	2.63	64	48	89	33	24	2.65	56	40	81	32	20	2.48	8	8	8	1	4
	NONSALMONID LAKE	2.87	149	136	283	138	97	2.84	134	119	242	123	78	3.06	15	17	41	15	19
	UNDESIG STRM MGMT	2.43	3	1	1	1	1	2.67	2	1	1	1	1	1.00	1	0	0	0	0
	UNDESIG LAKE MGMT	2.92	6	7	15	6	5	3.03	5	5	14	6	5	2.00	1	2	1	0	0
	Regional Ratings:	2.81	305	265	488	241	178	2.80	275	236	432	223	152	2.88	30	29	56	18	26

Table 10. Angler satisfaction ratings by region by water type for the 1997 "summer angling season of May '97 through September '97 (continued)

Reg    Water Type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
7	SALMONID STREAM	3.20	5	7	15	8	9	3.44	1	4	10	6	6	2.82	4	3	5	2	3
	SALMONID LAKE	2.93	16	13	13	12	14	2.97	15	12	12	12	14	2.00	1	1	1	0	0
	NONSALMONID STREAM	2.84	64	40	90	42	41	2.75	57	34	73	32	30	3.24	7	6	17	10	11
	NONSALMONID LAKE	2.99	38	41	73	43	36	2.92	30	31	64	30	23	3.25	8	10	9	13	13
	UNDESIG STRM MGMT	2.00	0	1	0	0	0	2.00	0	1	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	3.31	5	4	10	7	9	3.30	5	4	9	6	9	3.50	0	0	1	1	0
Regional Ratings:		2.95	128	106	201	112	109	2.90	108	86	168	86	82	3.16	20	20	33	26	27
Total	SALMONID STREAM	2.90	2374	2094	3542	2220	1831	2.89	1498	1263	2158	1276	1105	2.96	876	831	1384	944	726
	SALMONID LAKE	2.53	2557	1370	2173	1165	983	2.54	2151	1121	1735	877	742	2.83	406	249	438	288	246
	NONSALMONID STREAM	2.73	206	138	272	109	103	2.69	186	120	239	94	85	2.99	20	18	33	15	21
	NONSALMONID LAKE	2.78	310	237	433	225	164	2.73	283	207	379	197	126	3.11	27	30	54	28	38
	UNDESIG STRM MGMT	3.05	59	40	76	55	53	3.07	31	18	34	30	30	3.02	28	22	42	25	28
	UNDESIG LAKE MGMT	3.15	76	39	89	68	88	3.13	61	34	77	53	71	3.22	15	5	12	15	17
Statewide Ratings:		2.79	5582	3918	6585	3842	3238	2.73	4210	2763	4622	2527	2162	2.94	1372	1155	1963	1315	1076

Angler satisfaction ratings were summarized by the twenty-two major drainages like those reported under the angling pressure section (Table 11). The ratings ranged from a high of 3.33 for the Little Missouri drainage to a low of 2.45 for the Musselshell drainage.

Table 11. Angler satisfaction ratings by drainage by water type for the 1997 "summer angling season of May '97 through September '97

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
BEAVERHEAD DR																			
SALMONID STREAM		3.38	76	77	140	146	154	3.45	26	30	56	49	68	3.34	50	47	84	97	86
SALMONID LAKE		2.46	154	70	105	60	43	2.55	83	28	49	35	29	2.37	71	42	56	25	14
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		5.00	0	0	0	0	1	.00	0	0	0	0	0	5.00	0	0	0	0	1
UNDESIG LAKE MGMT		3.25	1	0	0	3	0	4.00	0	0	0	2	0	2.50	1	0	0	1	0
Drainage Ratings:		3.00	231	147	245	209	198	3.01	109	58	105	86	97	2.99	122	89	140	123	101
BIG HOLE DR																			
SALMONID STREAM		2.94	160	128	278	167	116	3.02	83	64	145	96	71	2.85	77	64	133	71	45
SALMONID LAKE		3.22	13	14	24	18	21	3.13	10	11	17	13	13	3.46	3	3	7	5	8
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		4.00	0	0	1	1	1	3.00	0	0	1	0	0	4.50	0	0	0	1	1
UNDESIG LAKE MGMT		4.17	0	0	2	1	3	4.33	0	0	1	0	2	4.00	0	0	1	1	1
Drainage Ratings:		2.98	173	142	305	187	141	3.04	93	75	164	109	86	2.91	80	67	141	78	55



Table 11. Angler satisfaction ratings by drainage by water type for the 1997 "summer angling season of May '97 through September '97 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
BITTERROOT DR																			
SALMONID STREAM		2.93	126	142	244	143	100	2.94	82	83	169	90	65	2.91	44	59	75	53	35
SALMONID LAKE		2.64	28	12	16	18	10	2.55	25	10	13	13	8	3.07	3	2	3	5	2
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		3.00	3	1	0	1	3	3.75	1	0	0	1	2	2.25	2	1	0	0	1
UNDESIG LAKE MGMT		3.63	1	1	2	0	4	3.71	1	1	1	0	4	3.00	0	0	1	0	0
Drainage Ratings:		2.91	158	156	262	162	117	2.91	109	94	183	104	79	2.91	49	62	79	58	38
BLACKFOOT DR																			
SALMONID STREAM		2.64	130	114	138	78	56	2.61	90	81	89	50	38	2.71	40	33	49	28	18
SALMONID LAKE		2.33	121	55	73	36	26	2.38	103	48	68	35	23	1.94	18	7	5	1	3
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		2.00	1	0	1	0	0	2.00	1	0	1	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		3.30	1	1	3	4	1	3.13	1	1	3	2	1	4.00	0	0	0	2	0
Drainage Ratings:		2.53	253	170	215	118	83	2.51	195	130	161	87	62	2.59	58	40	54	31	21
LOWER CLARK FORK DR																			
SALMONID STREAM		2.63	156	142	187	101	58	2.66	91	90	118	62	38	2.58	65	52	69	39	20
SALMONID LAKE		2.66	72	42	56	47	28	2.66	61	31	43	36	25	2.67	11	11	13	11	3
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		2.33	2	0	0	0	1	1.00	2	0	0	0	0	5.00	0	0	0	0	1
UNDESIG STRM MGMT		2.91	1	3	5	0	2	2.71	1	2	3	0	1	3.25	0	1	2	0	1
UNDESIG LAKE MGMT		2.67	4	1	4	1	2	3.43	1	0	3	1	2	1.60	3	1	1	0	0
Drainage Ratings:		2.64	235	188	252	149	91	2.67	156	123	167	99	66	2.60	79	65	85	50	25
UPPER CLARK FORK DR																			
SALMONID STREAM		2.92	122	116	221	136	85	3.01	70	78	141	83	70	2.75	52	38	80	53	15
SALMONID LAKE		3.07	77	75	156	99	81	3.02	63	63	129	73	61	3.26	14	12	27	26	20
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		3.56	1	0	3	3	2	3.50	1	0	2	1	2	3.67	0	0	1	2	0
UNDESIG LAKE MGMT		3.25	3	1	5	3	4	3.08	3	1	4	2	3	4.00	0	0	1	1	1
Drainage Ratings:		2.99	203	192	385	241	172	3.02	137	142	276	159	136	2.92	66	50	109	82	36
LOWER FLATHEAD DR																			
SALMONID STREAM		2.77	113	79	142	76	60	2.81	79	52	107	55	45	2.67	34	27	35	21	15
SALMONID LAKE		2.63	327	171	313	141	140	2.58	268	135	254	108	100	2.82	59	36	59	33	40
NONSALMONID STREAM		1.00	1	0	0	0	0	1.00	1	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		2.38	33	20	18	13	8	2.34	32	18	18	13	6	3.00	1	2	0	0	2
UNDESIG STRM MGMT		2.50	3	2	0	2	1	2.75	1	1	0	2	0	2.25	2	1	0	0	1
UNDESIG LAKE MGMT		2.38	10	6	7	4	2	2.33	9	6	7	4	1	3.00	1	0	0	0	1
Drainage Ratings:		2.65	487	278	480	236	211	2.62	390	212	386	182	152	2.76	97	66	94	54	59
UPPER FLATHEAD DR																			
SALMONID STREAM		3.16	39	31	101	66	44	3.15	24	20	78	38	29	3.18	15	11	23	28	15
SALMONID LAKE		2.51	67	46	43	29	24	2.55	49	39	36	20	21	2.36	18	7	7	9	3
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		2.75	1	1	0	2	0	2.50	1	0	0	1	0	3.00	0	1	0	1	0
UNDESIG LAKE MGMT		3.06	6	0	1	5	4	3.00	5	0	1	2	4	3.25	1	0	0	3	0
Drainage Ratings:		2.89	113	78	145	102	72	2.87	79	59	115	61	54	2.93	34	19	30	41	18

Table 11. Angler satisfaction ratings by drainage by water type for the 1997 "summer angling season of May '97 through September '97 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
GALLATIN DR																			
	SALMONID STREAM	3.01	125	106	228	150	105	3.08	75	56	112	91	73	2.91	50	50	116	59	32
	SALMONID LAKE	2.98	44	36	54	35	42	2.92	39	30	43	28	33	3.24	5	6	11	7	9
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.75	0	1	3	1	3	4.00	0	0	2	1	2	3.33	0	1	1	0	1
	UNDESIG LAKE MGMT	2.75	3	1	1	1	2	2.67	3	0	1	0	2	3.00	0	1	0	1	0
Drainage Ratings:		3.00	172	144	286	187	152	3.03	117	86	158	120	110	2.95	55	58	128	67	42
JEFFERSON DR																			
	SALMONID STREAM	2.86	44	34	57	14	41	2.99	30	24	47	10	36	2.44	14	10	10	4	5
	SALMONID LAKE	2.54	31	17	25	14	10	2.52	30	17	24	14	9	3.00	1	0	1	0	1
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	3.00	0	0	1	0	0	3.00	0	0	1	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.69	1	2	2	3	5	3.50	0	2	2	2	2	4.00	1	0	0	1	3
	UNDESIG LAKE MGMT	3.83	0	0	3	1	2	4.25	0	0	1	1	2	3.00	0	0	2	0	0
Drainage Ratings:		2.81	76	53	88	32	58	2.85	60	43	75	27	49	2.64	16	10	13	5	9
KOOTENAI DR																			
	SALMONID STREAM	2.88	84	58	99	79	52	2.89	55	41	61	53	35	2.88	29	17	38	26	17
	SALMONID LAKE	3.10	99	75	181	93	117	2.89	64	51	113	39	53	3.36	35	24	68	54	64
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	2.31	3	5	3	2	0	2.27	3	4	2	2	0	2.50	0	1	1	0	0
	UNDESIG STRM MGMT	2.76	4	2	6	4	1	2.80	3	1	2	3	1	2.71	1	1	4	1	0
	UNDESIG LAKE MGMT	2.63	3	0	2	3	0	2.25	2	0	1	1	0	3.00	1	0	1	2	0
Drainage Ratings:		2.99	193	140	291	181	170	2.87	127	97	179	98	89	3.18	66	43	112	83	81
LITTLE MISSOURI DR																			
	SALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	SALMONID LAKE	4.00	0	0	1	1	1	4.00	0	0	1	1	1	.00	0	0	0	0	0
	NONSALMONID STREAM	2.83	1	1	3	0	1	3.00	1	0	3	0	1	2.00	0	1	0	0	0
	NONSALMONID LAKE	3.40	1	2	2	2	3	3.40	1	2	2	2	3	.00	0	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	3.50	0	0	1	1	0	3.00	0	0	1	0	0	4.00	0	0	0	1	0
Drainage Ratings:		3.33	2	3	7	4	5	3.37	2	2	7	3	5	3.00	0	1	0	1	0
MADISON DR																			
	SALMONID STREAM	2.66	243	234	360	168	90	2.69	92	77	120	63	38	2.65	151	157	240	105	52
	SALMONID LAKE	2.75	102	87	120	87	47	2.73	49	43	48	42	22	2.77	53	44	72	45	25
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	5.00	0	0	0	0	1	.00	0	0	0	0	0	5.00	0	0	0	0	1
	UNDESIG STRM MGMT	2.36	4	2	2	3	0	3.20	0	1	2	2	0	1.67	4	1	0	1	0
	UNDESIG LAKE MGMT	3.67	1	0	1	2	2	4.00	0	0	1	2	1	3.00	1	0	0	0	1
Drainage Ratings:		2.69	350	323	483	260	140	2.71	141	121	171	109	61	2.67	209	202	312	151	79
MARIAS DR																			
	SALMONID STREAM	2.80	13	13	17	16	5	2.71	13	12	13	14	4	3.38	0	1	4	2	1
	SALMONID LAKE	2.54	101	58	77	40	38	2.53	92	58	73	37	33	2.76	9	0	4	3	5
	NONSALMONID STREAM	2.72	16	9	20	8	8	2.69	16	9	19	7	8	3.50	0	0	1	1	0
	NONSALMONID LAKE	2.64	35	12	31	15	14	2.59	35	12	30	15	12	4.33	0	0	1	0	2
	UNDESIG STRM MGMT	3.43	0	2	1	3	1	3.75	0	1	0	2	1	3.00	0	1	1	1	0
	UNDESIG LAKE MGMT	2.57	6	0	4	2	2	2.27	5	0	4	2	0	3.67	1	0	0	0	2
Drainage Ratings:		2.62	171	94	150	84	68	2.58	161	92	139	77	58	3.13	10	2	11	7	10



Table 11. Angler satisfaction ratings by drainage by water type for the 1997 "summer angling season of May '97 through September '97 (continued)

Drain- age      water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
MILK DR																			
SALMONID STREAM		2.96	7	12	17	8	8	3.04	5	12	15	8	8	2.00	2	0	2	0	0
SALMONID LAKE		2.86	52	47	71	45	35	2.83	51	45	67	43	32	3.33	1	2	4	2	3
NONSALMONID STREAM		2.75	14	10	19	9	7	2.85	11	9	18	9	7	1.60	3	1	1	0	0
NONSALMONID LAKE		3.24	5	16	35	20	14	3.27	4	14	34	18	13	3.00	1	2	1	2	1
UNDESIG STRM MGMT		2.60	2	1	0	1	1	2.60	2	1	0	1	1	.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.75	4	4	11	4	1	2.77	4	3	10	4	1	2.50	0	1	1	0	0
Drainage Ratings:		2.92	84	90	153	87	66	2.93	77	84	144	83	62	2.73	7	6	9	4	4
LOWER MISSOURI DR																			
SALMONID STREAM		3.14	26	22	51	27	35	3.24	17	19	41	24	30	2.73	9	3	10	3	5
SALMONID LAKE		2.32	61	27	27	18	15	2.34	57	26	24	18	15	1.88	4	1	3	0	0
NONSALMONID STREAM		2.61	74	45	88	30	29	2.60	67	37	80	28	24	2.67	7	8	8	2	5
NONSALMONID LAKE		2.83	148	125	253	124	87	2.80	134	110	211	111	69	3.06	14	15	42	13	18
UNDESIG STRM MGMT		2.00	2	1	2	0	0	2.25	1	1	2	0	0	1.00	1	0	0	0	0
UNDESIG LAKE MGMT		3.53	3	4	8	7	10	3.64	2	3	7	7	9	2.75	1	1	1	0	1
Drainage Ratings:		2.78	314	224	429	206	176	2.77	278	196	365	188	147	2.86	36	28	64	18	29
UPPER MISSOURI DR																			
SALMONID STREAM		2.92	345	266	462	293	267	2.92	266	197	365	209	209	2.93	79	69	97	84	58
SALMONID LAKE		2.30	708	273	428	197	136	2.25	650	248	378	165	111	2.69	58	25	50	32	25
NONSALMONID STREAM		2.88	21	16	30	14	16	2.82	18	14	28	13	11	3.23	3	2	2	1	5
NONSALMONID LAKE		2.75	1	1	0	2	0	2.75	1	1	0	2	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		3.53	1	0	7	4	3	3.62	1	0	5	4	3	3.00	0	0	2	0	0
UNDESIG LAKE MGMT		3.25	12	8	14	10	19	3.16	12	8	13	9	16	4.40	0	0	1	1	3
Drainage Ratings:		2.62	1088	564	941	520	441	2.57	948	468	789	402	350	2.87	140	96	152	118	91
MUSSELSHELL DR																			
SALMONID STREAM		2.96	26	19	27	16	25	2.88	24	18	26	14	20	3.64	2	1	1	2	5
SALMONID LAKE		2.23	75	28	48	18	11	2.19	74	27	43	17	10	3.00	1	1	5	1	1
NONSALMONID STREAM		1.00	1	0	0	0	0	1.00	1	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		1.96	36	12	12	6	3	1.97	35	12	12	6	3	1.00	1	0	0	0	0
UNDESIG STRM MGMT		2.56	4	0	3	0	2	2.14	4	0	2	0	1	4.00	0	0	1	0	1
UNDESIG LAKE MGMT		3.77	0	2	4	2	5	3.77	0	2	4	2	5	.00	0	0	0	0	0
Drainage Ratings:		2.45	142	61	94	42	46	2.40	138	59	87	39	39	3.30	4	2	7	3	7
ST MARY DR																			
SALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
SALMONID LAKE		2.89	8	8	9	4	8	2.76	8	8	7	4	6	4.00	0	0	2	0	2
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		4.00	0	0	1	0	1	4.00	0	0	1	0	1	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
Drainage Ratings:		2.95	8	8	10	4	9	2.83	8	8	8	4	7	4.00	0	0	2	0	2
SUN DR																			
SALMONID STREAM		2.95	28	17	30	31	18	2.95	21	10	20	24	12	2.95	7	7	10	7	6
SALMONID LAKE		2.61	79	45	68	27	38	2.59	73	42	66	24	33	2.89	6	3	2	3	5
NONSALMONID STREAM		3.00	0	0	1	0	0	.00	0	0	0	0	0	3.00	0	0	1	0	0
NONSALMONID LAKE		2.33	3	0	1	2	0	2.33	3	0	1	2	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		3.29	1	1	1	3	1	4.00	0	0	1	1	1	2.75	1	1	0	2	0
UNDESIG LAKE MGMT		2.89	3	0	2	3	1	2.86	2	0	2	3	0	3.00	1	0	0	0	1
Drainage Ratings:		2.73	114	63	103	66	58	2.70	99	52	90	54	46	2.92	15	11	13	12	12

Table 11. Angler satisfaction ratings by drainage by water type for the 1997 "summer angling season of May '97 through September '97 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
LOWER YELLOWSTONE DR																			
SALMONID STREAM		3.20	5	7	15	8	9	3.44	1	4	10	6	6	2.82	4	3	5	2	3
SALMONID LAKE		2.89	15	12	12	11	12	2.93	14	11	11	11	12	2.00	1	1	1	0	0
NONSALMONID STREAM		2.84	62	39	86	42	39	2.74	55	34	69	32	28	3.26	7	5	17	10	11
NONSALMONID LAKE		2.95	37	39	71	38	32	2.85	29	29	62	25	19	3.25	8	10	9	13	13
UNDESIG STRM MGMT		2.00	0	1	0	0	0	2.00	0	1	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		3.40	4	4	7	6	9	3.41	4	4	6	6	9	3.00	0	0	1	0	0
Drainage Ratings:		2.93	123	102	191	105	101	2.88	103	83	158	80	74	3.16	20	19	33	25	27
UPPER YELLOWSTONE DR																			
SALMONID STREAM		3.01	506	477	728	497	503	2.77	354	295	425	237	210	3.30	152	182	303	260	293
SALMONID LAKE		2.52	323	172	266	127	105	2.49	288	150	228	101	92	2.70	35	22	38	26	13
NONSALMONID STREAM		2.65	16	18	25	6	9	2.62	16	17	22	5	9	3.00	0	1	3	1	0
NONSALMONID LAKE		2.06	6	5	5	1	0	2.20	4	5	5	1	0	1.00	2	0	0	0	0
UNDESIG STRM MGMT		3.47	2	3	2	5	5	3.22	2	2	0	2	3	3.75	0	1	2	3	2
UNDESIG LAKE MGMT		3.16	11	6	7	5	15	3.07	7	5	6	3	9	3.36	4	1	1	2	6
Drainage Ratings:		2.87	864	681	1033	641	637	2.67	671	474	686	349	323	3.24	193	207	347	292	314
Total																			
SALMONID STREAM		2.92	2374	2094	3542	2220	1831	2.89	1498	1263	2158	1276	1105	2.96	876	831	1384	944	726
SALMONID LAKE		2.59	2557	1370	2173	1165	988	2.54	2151	1121	1735	877	742	2.83	406	249	438	288	246
NONSALMONID STREAM		2.73	206	138	272	109	109	2.69	186	120	239	94	88	2.99	20	18	33	15	21
NONSALMONID LAKE		2.78	310	237	433	225	164	2.73	283	207	379	197	126	3.11	27	30	54	28	38
UNDESIG STRM MGMT		3.05	59	40	76	55	58	3.07	31	18	34	30	30	3.02	28	22	42	25	28
UNDESIG LAKE MGMT		3.15	76	39	89	68	88	3.13	61	34	77	53	71	3.22	15	5	12	15	17
Statewide Ratings:		2.79	5582	3918	6585	3842	3238	2.73	4210	2763	4622	2527	2162	2.94	1372	1155	1963	1315	1076

## 1997 WINTER

The "winter" season for angling is from March through April and October through February of the following year. In 1997, 708,987 angler days (24.6%) of the annual fishing pressure occurred during this period (Table 12). Residents accounted for 92.5% of the total angling pressure for the "winter" season. Angling pressure was directed towards salmonid streams with 44.9% of the "winter" use. Salmonid lakes accounted for 39.9% of the use during this same time period.

The pressure from region to region ranged from a high of 165,492 angler days for Region 3 to a low of 29,515 angler days for Region 7. Angling pressure by residents for this period for each FWP region ranged from a low of 65.9% for region 7 to a high of 99.3% for region 4.

Winter angling pressure (Table 13) by drainage ranged from 141,237 angler days for the Upper Missouri River drainage to 1,247 angler days for the Little Missouri River drainage in Eastern Montana. Residents accounted for as low as 63.8% of the pressure in the Lower Yellowstone River drainage to a high of 100% of the pressure in the upper Flathead River, Little Missouri River, Milk River, Musselshell River, and St. Mary River drainages.



Table 12. Angling pressure in angler days by region by water type for the 1997 "winter" season of March '97 through April '97 and October '97 through February '98.

REG	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		--NON-RESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
1	SALMONID STREAM	29479.	525.	26797.	483.	2682.	42.
	SALMONID LAKE	46113.	783.	44233.	745.	1880.	38.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	3007.	57.	2986.	56.	21.	1.
	UNDESIG STRM MGMT	349.	8.	349.	8.	0.	0.
	UNDESIG LAKE MGMT	1305.	24.	1305.	24.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	80253.	1397.	75670.	1316.	4583.	81.
2	SALMONID STREAM	62781.	1282.	51233.	1021.	11548.	261.
	SALMONID LAKE	24094.	393.	22680.	372.	1414.	21.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	773.	19.	710.	18.	63.	1.
	REGIONAL PRESSURE ESTIMATES:	87648.	1694.	74623.	1411.	13025.	283.
3	SALMONID STREAM	66636.	1262.	53040.	1061.	13596.	201.
	SALMONID LAKE	63301.	1126.	59785.	1064.	3516.	62.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	96.	4.	32.	1.	64.	3.
	UNDESIG LAKE MGMT	488.	8.	488.	8.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	130521.	2400.	113345.	2134.	17176.	266.
4	SALMONID STREAM	46822.	779.	44793.	744.	2029.	35.
	SALMONID LAKE	62591.	1113.	62120.	1100.	471.	13.
	NONSALMONID STREAM	4322.	85.	4196.	83.	126.	2.
	NONSALMONID LAKE	6588.	102.	6588.	102.	0.	0.
	UNDESIG STRM MGMT	95.	3.	95.	3.	0.	0.
	UNDESIG LAKE MGMT	4405.	74.	4405.	74.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	124823.	2156.	122197.	2106.	2626.	50.
5	SALMONID STREAM	43367.	835.	37597.	734.	5770.	101.
	SALMONID LAKE	17062.	306.	15480.	274.	1582.	32.
	NONSALMONID STREAM	3676.	83.	3676.	83.	0.	0.
	NONSALMONID LAKE	188.	2.	188.	2.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	1258.	21.	1153.	18.	105.	3.
	REGIONAL PRESSURE ESTIMATES:	65551.	1247.	58094.	1111.	7457.	136.

Table 12. Angling pressure in angler days by region by water type for the 1997 "winter" season of March '97 through April '97 and October '97 through February '98 (continued)

REG	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		---NON-RESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
6							
	SALMONID STREAM	3292.	56.	3292.	56.	0.	0.
	SALMONID LAKE	15232.	230.	15232.	230.	0.	0.
	NONSALMONID STREAM	11019.	191.	11019.	191.	0.	0.
	NONSALMONID LAKE	28574.	449.	26420.	415.	2154.	34.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	2233.	38.	2233.	38.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	60350.	964.	58196.	930.	2154.	34.
7							
	SALMONID STREAM	5086.	73.	575.	14.	4511.	59.
	SALMONID LAKE	2332.	34.	2332.	34.	0.	0.
	NONSALMONID STREAM	9838.	207.	9838.	207.	0.	0.
	NONSALMONID LAKE	10086.	167.	4662.	83.	5424.	84.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	2173.	32.	2057.	31.	116.	1.
	REGIONAL PRESSURE ESTIMATES:	29515.	513.	19464.	369.	10051.	144.
TOTAL							
	SALMONID STREAM	318613.	5512.	283870.	5036.	34743.	476.
	SALMONID LAKE	283026.	4513.	273499.	4336.	9527.	177.
	NONSALMONID STREAM	34734.	635.	34400.	632.	334.	3.
	NONSALMONID LAKE	57755.	906.	50062.	787.	7693.	119.
	UNDESIG STRM MGMT	2857.	53.	1971.	45.	886.	8.
	UNDESIG LAKE MGMT	12002.	205.	11865.	203.	137.	2.
	STATEWIDE PRESSURE ESTIMATES:	708987.	11824.	655667.	11039.	53320.	785.

Table 13. Angling pressure in angler days by drainage by water type for the 1997 "winter" angling season March '97 through April '97 and October '97 through February '98

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
BEAVERHEAD DR							
	SALMONID STREAM	7737.	149.	7128.	138.	609.	11.
	SALMONID LAKE	23015.	409.	20034.	323.	2981.	86.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
	DRAINAGE PRESSURE ESTIMATES:	30752.	558.	27162.	461.	3590.	97.



Table 13. Angling pressure in angler days by drainage by water type for the 1997 "winter" angling season March '97 through April '97 and October '97 through February '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
BIG HOLE DR							
	SALMONID STREAM	10423.	189.	8098.	166.	2325.	23.
	SALMONID LAKE	718.	12.	718.	12.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	159.	3.	159.	3.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		11300.	204.	8975.	181.	2325.	23.
BITTERROOT DR							
	SALMONID STREAM	31099.	484.	26796.	441.	4303.	43.
	SALMONID LAKE	1805.	29.	1805.	29.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	880.	16.	469.	12.	411.	4.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		33784.	529.	29070.	482.	4714.	47.
BLACKFOOT DR							
	SALMONID STREAM	7070.	134.	6761.	131.	309.	3.
	SALMONID LAKE	9033.	145.	8558.	141.	475.	4.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	81.	1.	81.	1.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		16184.	280.	15400.	273.	784.	7.
LOWER CLARK FORK DR							
	SALMONID STREAM	17455.	314.	15892.	280.	1563.	34.
	SALMONID LAKE	10702.	165.	10596.	160.	106.	5.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	39.	1.	39.	1.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		28196.	480.	26527.	441.	1669.	39.
UPPER CLARK FORK DR							
	SALMONID STREAM	13543.	230.	12000.	215.	1543.	15.
	SALMONID LAKE	24269.	363.	23924.	360.	345.	3.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		37812.	593.	35924.	575.	1888.	18.

Table 13. Angling pressure in angler days by drainage by water type for the 1997 "winter" angling season March '97 through April '97 and October '97 through February '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LOWER FLATHEAD DR							
	SALMONID STREAM	18809.	341.	18809.	341.	0.	0.
	SALMONID LAKE	37502.	575.	37145.	572.	357.	3.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	9628.	136.	9513.	135.	115.	1.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	949.	15.	928.	14.	21.	1.
DRAINAGE PRESSURE ESTIMATES:							
		66888.	1067.	66395.	1062.	493.	5.
UPPER FLATHEAD DR							
	SALMONID STREAM	1890.	31.	1890.	31.	0.	0.
	SALMONID LAKE	2258.	47.	2258.	47.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	117.	3.	117.	3.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		4265.	81.	4265.	81.	0.	0.
GALLATIN DR							
	SALMONID STREAM	22091.	404.	17975.	350.	4116.	54.
	SALMONID LAKE	3703.	61.	3703.	61.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		25794.	465.	21678.	411.	4116.	54.
JEFFERSON DR							
	SALMONID STREAM	5707.	113.	5604.	112.	103.	1.
	SALMONID LAKE	4212.	66.	4212.	66.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		9919.	179.	9816.	178.	103.	1.
KOOTENAI DR							
	SALMONID STREAM	13006.	195.	11379.	177.	1627.	18.
	SALMONID LAKE	13513.	176.	10625.	147.	2888.	29.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	201.	5.	201.	5.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	243.	3.	243.	3.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		26963.	379.	22448.	332.	4515.	47.



Table 13. Angling pressure in angler days by drainage by water type for the 1997 "winter" angling season March '97 through April '97 and October '97 through February '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LITTLE MISSOURI DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	81.	1.	81.	1.	0.	0.
	NONSALMONID STREAM	761.	17.	761.	17.	0.	0.
	NONSALMONID LAKE	405.	5.	405.	5.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		1247.	23.	1247.	23.	0.	0.
MADISON DR							
	SALMONID STREAM	20143.	346.	15466.	282.	4677.	64.
	SALMONID LAKE	5990.	100.	4399.	69.	1591.	31.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	78.	2.	78.	2.	0.	0.
	UNDESIG LAKE MGMT	471.	8.	471.	8.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		26682.	456.	20414.	361.	6268.	95.
MARIAS DR							
	SALMONID STREAM	1267.	22.	1267.	22.	0.	0.
	SALMONID LAKE	7836.	135.	7794.	133.	42.	2.
	NONSALMONID STREAM	1132.	25.	1132.	25.	0.	0.
	NONSALMONID LAKE	4290.	62.	4290.	62.	0.	0.
	UNDESIG STRM MGMT	45.	1.	45.	1.	0.	0.
	UNDESIG LAKE MGMT	1377.	25.	1377.	25.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		15947.	270.	15905.	268.	42.	2.
MILK DR							
	SALMONID STREAM	1289.	28.	1289.	28.	0.	0.
	SALMONID LAKE	14295.	215.	14295.	215.	0.	0.
	NONSALMONID STREAM	1962.	35.	1962.	35.	0.	0.
	NONSALMONID LAKE	10205.	141.	10205.	141.	0.	0.
	UNDESIG STRM MGMT	313.	8.	313.	8.	0.	0.
	UNDESIG LAKE MGMT	1293.	24.	1293.	24.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		29357.	451.	29357.	451.	0.	0.
LOWER MISSOURI DR							
	SALMONID STREAM	4315.	71.	4273.	69.	42.	2.
	SALMONID LAKE	5993.	96.	5993.	96.	0.	0.
	NONSALMONID STREAM	11445.	202.	11445.	202.	0.	0.
	NONSALMONID LAKE	19074.	319.	16920.	285.	2154.	34.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	1797.	30.	1797.	30.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		42624.	718.	40428.	682.	2196.	36.

Table 13. Angling pressure in angler days by drainage by water type for the 1997 "winter" angling season March '97 through April '97 and October '97 through February '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
UPPER MISSOURI DR							
	SALMONID STREAM	51131.	916.	50738.	909.	393.	7.
	SALMONID LAKE	83181.	1317.	82954.	1314.	227.	3.
	NONSALMONID STREAM	4422.	68.	4319.	67.	103.	1.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	441.	6.	441.	6.	0.	0.
	UNDESIG LAKE MGMT	2062.	38.	2062.	38.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		141237.	2345.	140514.	2334.	723.	11.
MUSSELSHELL DR							
	SALMONID STREAM	4099.	54.	4099.	54.	0.	0.
	SALMONID LAKE	7469.	126.	7469.	126.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	2326.	37.	2326.	37.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	442.	10.	442.	10.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		14336.	227.	14336.	227.	0.	0.
ST MARY DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	2098.	35.	2098.	35.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	324.	4.	324.	4.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		2422.	39.	2422.	39.	0.	0.
SUN DR							
	SALMONID STREAM	2393.	51.	1982.	47.	411.	4.
	SALMONID LAKE	3800.	70.	3800.	70.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	80.	1.	80.	1.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	333.	4.	333.	4.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		6606.	126.	6195.	122.	411.	4.
LOWER YELLOWSTONE DR							
	SALMONID STREAM	5086.	73.	575.	14.	4511.	59.
	SALMONID LAKE	2027.	28.	2027.	28.	0.	0.
	NONSALMONID STREAM	8987.	188.	8987.	188.	0.	0.
	NONSALMONID LAKE	9681.	162.	4257.	78.	5424.	84.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	1955.	27.	1839.	26.	116.	1.
DRAINAGE PRESSURE ESTIMATES:							
		27736.	478.	17685.	334.	10051.	144.



Table 13. Angling pressure in angler days by drainage by water type for the 1997 "winter" angling season March '97 through April '97 and October '97 through February '98 (continued)

DRAIN	WATER TYPE	-----TOTALS-----		----RESIDENTS----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
UPPER YELLOWSTONE DR							
	SALMONID STREAM	80060.	1367.	71849.	1229.	8211.	138.
	SALMONID LAKE	19526.	342.	19011.	331.	515.	11.
	NONSALMONID STREAM	6025.	100.	5794.	98.	231.	2.
	NONSALMONID LAKE	1541.	34.	1541.	34.	0.	0.
	UNDESIG STRM MGMT	78.	2.	78.	2.	0.	0.
	UNDESIG LAKE MGMT	684.	13.	684.	13.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		107914.	1858.	98957.	1707.	8957.	151.
TOTAL							
	SALMONID STREAM	318613.	5512.	283870.	5036.	34743.	476.
	SALMONID LAKE	283026.	4513.	273499.	4336.	9527.	177.
	NONSALMONID STREAM	34734.	635.	34400.	632.	334.	3.
	NONSALMONID LAKE	57755.	906.	50062.	787.	7693.	119.
	UNDESIG STRM MGMT	2857.	53.	1971.	45.	886.	8.
	UNDESIG LAKE MGMT	12002.	205.	11865.	203.	137.	2.
STATEWIDE PRESSURE ESTIMATES:							
		708987.	11824.	655667.	11039.	53320.	785.

### Angler Satisfaction Ratings - Winter

The average rating overall for winter was 2.78 with residents and nonresidents rating their angling experience at 2.76 and 3.07 respectively (Table 14). Individual water satisfaction ratings for the "summer" season are given in a separate report "Montana Angler Satisfaction Ratings 1997".

Region 5 had the highest overall satisfaction rating of 2.90 while region 1 had the lowest satisfaction rating of 2.70. Nonresidents were always higher in their satisfaction ratings than residents for all regions except region 7.

Table 14. Angler satisfaction ratings by region by water type for the 1997 "winter" angling angling season March '97 through April '97 and October '97 through February '98

Reg      Water Type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
1	SALMONID STREAM	2.74	52	36	46	38	25	2.72	51	35	41	37	24	3.00	1	1	5	1	1
	SALMONID LAKE	2.69	101	65	92	53	51	2.70	97	63	89	52	50	2.36	4	2	3	1	1
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	2.59	17	9	15	10	5	2.62	16	9	15	10	5	1.00	1	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	2.83	3	2	4	0	3	3.00	2	2	4	0	3	1.00	1	0	0	0	0
	Regional Ratings:	2.70	173	112	157	101	84	2.71	166	109	149	99	82	2.50	7	3	8	2	2
2	SALMONID STREAM	2.75	71	72	118	58	34	2.72	69	70	106	54	31	3.17	2	2	12	4	3
	SALMONID LAKE	2.72	53	40	50	33	28	2.70	53	40	50	31	27	4.33	0	0	0	2	1
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.20	1	0	2	1	1	3.25	1	0	1	1	1	3.00	0	0	1	0	0
	UNDESIG LAKE MGMT	4.00	0	0	0	1	0	4.00	0	0	0	1	0	.00	0	0	0	0	0
	Regional Ratings:	2.75	125	112	170	93	63	2.72	123	110	157	87	59	3.30	2	2	13	6	4
3	SALMONID STREAM	2.91	119	111	160	126	85	2.90	109	100	141	111	76	3.03	10	11	19	15	9
	SALMONID LAKE	2.66	131	75	130	69	55	2.61	125	69	117	64	46	3.13	6	6	13	5	9
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.67	0	0	2	0	1	3.67	0	0	2	0	1	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	2.80	1	1	1	2	0	2.80	1	1	1	2	0	.00	0	0	0	0	0
	Regional Ratings:	2.80	251	187	293	197	141	2.78	235	170	261	177	123	3.07	16	17	32	20	18
4	SALMONID STREAM	3.01	65	58	102	63	65	3.01	65	56	100	61	65	3.00	0	2	2	2	0
	SALMONID LAKE	2.58	139	75	114	57	55	2.58	137	75	114	57	55	1.00	2	0	0	0	0
	NONSALMONID STREAM	2.24	20	15	11	5	4	2.19	20	15	11	5	3	5.00	0	0	0	0	1
	NONSALMONID LAKE	2.31	18	11	15	5	3	2.31	18	11	15	5	3	.00	0	0	0	0	0
	UNDESIG STRM MGMT	2.83	2	0	1	3	0	2.83	2	0	1	3	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	2.78	6	4	5	5	3	2.78	6	4	5	5	3	.00	0	0	0	0	0
	Regional Ratings:	2.71	250	163	248	138	130	2.71	248	161	246	136	129	2.78	2	2	2	2	1
5	SALMONID STREAM	3.09	97	59	126	95	101	3.04	92	56	115	84	87	3.59	5	3	11	11	14
	SALMONID LAKE	2.51	61	17	34	11	27	2.51	59	16	31	10	27	2.43	2	1	3	1	0
	NONSALMONID STREAM	2.17	13	15	6	7	0	2.20	12	15	6	7	0	1.00	1	0	0	0	0
	NONSALMONID LAKE	2.56	2	2	4	0	1	2.56	2	2	4	0	1	.00	0	0	0	0	0
	UNDESIG STRM MGMT	2.00	0	1	0	0	0	2.00	0	1	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	2.78	2	2	3	0	2	2.78	2	2	3	0	2	.00	0	0	0	0	0
	Regional Ratings:	2.90	175	96	173	113	131	2.86	167	92	159	101	117	3.38	8	4	14	12	14
6	SALMONID STREAM	2.63	5	2	8	3	1	2.63	5	2	8	3	1	.00	0	0	0	0	0
	SALMONID LAKE	2.76	16	9	29	12	6	2.76	16	9	29	12	6	.00	0	0	0	0	0
	NONSALMONID STREAM	2.57	17	8	17	3	8	2.57	17	8	17	3	8	.00	0	0	0	0	0
	NONSALMONID LAKE	2.95	26	21	40	24	21	2.90	25	21	40	21	19	3.83	1	0	0	3	2
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	2.67	3	1	6	1	1	2.67	3	1	6	1	1	.00	0	0	0	0	0
	Regional Ratings:	2.80	67	41	100	43	37	2.78	66	41	100	40	35	3.83	1	0	0	3	2



Table 14. Angler satisfaction ratings by region by water type for the 1997 "winter" angling angling season March '97 through April '97 and October '97 through February '98 (continued)

Reg    Water Type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
7																			
	SALMONID STREAM	2.94	1	6	5	5	1	3.50	0	1	2	2	1	2.67	1	5	3	3	0
	SALMONID LAKE	3.00	0	5	6	1	2	3.00	0	5	6	1	2	3.00	0	0	0	0	0
	NONSALMONID STREAM	2.71	12	9	16	10	4	2.71	12	9	16	10	4	2.71	0	0	0	0	0
	NONSALMONID LAKE	2.71	10	9	11	7	5	2.70	4	7	7	2	3	2.74	6	2	4	5	2
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	3.00	1	3	3	3	1	3.00	1	3	2	3	1	3.00	0	0	1	0	0
Regional Ratings:		2.79	24	32	41	26	13	2.82	17	25	33	18	11	2.72	7	7	8	8	2
Total																			
	SALMONID STREAM	2.92	410	344	565	388	313	2.90	391	320	513	352	281	3.18	19	24	52	36	27
	SALMONID LAKE	2.65	501	286	455	236	224	2.64	487	277	436	227	213	2.90	14	9	19	9	11
	NONSALMONID STREAM	2.43	62	47	50	25	14	2.42	61	47	50	25	15	3.00	1	0	0	0	1
	NONSALMONID LAKE	2.72	73	52	85	46	35	2.70	65	50	81	38	31	2.92	8	2	4	8	4
	UNDESIG STRM MGMT	3.05	3	1	6	4	2	3.07	3	1	4	4	2	3.00	0	0	2	0	0
	UNDESIG LAKE MGMT	2.82	16	13	22	12	10	2.85	15	13	21	12	10	2.00	1	0	1	0	0
Statewide Ratings:		2.78	1065	743	1183	711	599	2.76	1022	708	1105	658	556	3.07	43	35	78	53	43

Angler satisfaction ratings were summarized by the twenty-two major drainages like those reported under the angling pressure section (Table 15). The ratings ranged from a high of 3.56 for the St. Mary drainage to a low of 2.33 for the Marias drainage.

Table 15. Angler satisfaction ratings by drainage by water type for the 1997 "winter" angling angling season March '97 through April '97 and October '97 through February '98

Drain- age	Water type	TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
	BEAVERHEAD DR																		
	SALMONID STREAM	3.28	7	11	8	16	12	3.33	6	9	7	15	11	2.83	1	2	1	1	1
	SALMONID LAKE	2.74	36	23	40	21	19	2.62	32	19	30	17	12	3.21	4	4	10	4	7
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	Drainage Ratings:	2.89	43	34	48	37	31	2.84	38	28	37	32	23	3.14	5	6	11	5	8
	BIG HOLE DR																		
	SALMONID STREAM	2.97	19	13	14	9	20	2.89	17	12	13	7	16	3.50	2	1	1	2	4
	SALMONID LAKE	3.25	1	0	1	1	1	3.25	1	0	1	1	1	.00	0	0	0	0	0
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	4.00	0	0	0	2	0	4.00	0	0	0	2	0	.00	0	0	0	0	0
	Drainage Ratings:	3.01	20	13	15	12	21	2.94	18	12	14	10	17	3.50	2	1	1	2	4

Table 15. Angler satisfaction ratings by drainage by water type for the 1997 "winter" angling angling season March '97 through April '97 and October '97 through February '98 (continued)

Drain- age	Water type	TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
BITTERROOT DR	SALMONID STREAM	2.70	29	31	52	21	12	2.66	28	31	44	20	11	3.09	1	0	8	1	1
	SALMONID LAKE	2.75	2	1	3	1	1	2.75	2	1	3	1	1	.00	0	0	0	0	0
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	3.20	1	0	2	1	1	3.25	1	0	1	1	1	3.00	0	0	1	0	0
	UNDESIG LAKE MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	Drainage Ratings:	2.72	32	32	57	23	14	2.68	31	32	48	22	13	3.08	1	0	9	1	1
BLACKFOOT DR	SALMONID STREAM	2.92	11	12	19	7	11	2.90	11	11	19	7	10	3.50	0	1	0	0	1
	SALMONID LAKE	2.06	30	14	11	7	3	2.03	30	14	11	6	3	4.00	0	0	0	1	0
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	4.00	0	0	0	1	0	4.00	0	0	0	1	0	.00	0	0	0	0	0
	Drainage Ratings:	2.48	41	26	30	15	14	2.46	41	25	30	14	13	3.67	0	1	0	1	1
LOWER CLARK FORK DR	SALMONID STREAM	2.64	22	24	26	22	5	2.62	20	23	21	21	4	2.80	2	1	5	1	1
	SALMONID LAKE	2.65	21	12	16	10	10	2.66	20	12	16	9	10	2.50	1	0	0	1	0
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	3.00	0	0	1	0	0	3.00	0	0	1	0	0	.00	0	0	0	0	0
	Drainage Ratings:	2.64	43	36	43	32	15	2.64	40	35	38	30	14	2.75	3	1	5	2	1
UPPER CLARK FORK DR	SALMONID STREAM	2.80	19	13	28	18	8	2.77	19	13	27	16	8	3.67	0	0	1	2	0
	SALMONID LAKE	3.03	21	24	32	24	23	3.01	21	24	32	23	22	4.50	0	0	0	1	1
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	Drainage Ratings:	2.94	40	37	60	42	31	2.91	40	37	59	39	30	4.00	0	0	1	3	1
LOWER FLATHEAD DR	SALMONID STREAM	2.65	26	20	23	13	13	2.65	26	20	23	13	13	.00	0	0	0	0	0
	SALMONID LAKE	2.67	61	39	59	32	28	2.68	59	39	59	32	28	1.00	2	0	0	0	0
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	2.57	17	9	13	10	5	2.60	16	9	13	10	5	1.00	1	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	2.14	3	2	1	0	1	2.33	2	2	1	0	1	1.00	1	0	0	0	0
	Drainage Ratings:	2.64	107	70	96	55	47	2.66	103	70	96	55	47	1.00	4	0	0	0	0
UPPER FLATHEAD DR	SALMONID STREAM	3.27	3	0	2	3	3	3.27	3	0	2	3	3	.00	0	0	0	0	0
	SALMONID LAKE	2.28	4	7	5	2	0	2.28	4	7	5	2	0	.00	0	0	0	0	0
	NONSALMONID STREAM	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	NONSALMONID LAKE	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG STRM MGMT	.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
	UNDESIG LAKE MGMT	4.00	0	0	1	0	1	4.00	0	0	1	0	1	.00	0	0	0	0	0
	Drainage Ratings:	2.74	7	7	8	5	4	2.74	7	7	8	5	4	.00	0	0	0	0	0



Table 15. Angler satisfaction ratings by drainage by water type for the 1997 "winter" angling angling season March '97 through April '97 and October '97 through February '98 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor		----- excellent			Avg Rate	poor		-----excellent			Avg Rate	poor		----- excellent		
			1's	2's	3's	4's	5's		1's	2's	3's	4's	5's		1's	2's	3's	4's	5's
GALLATIN DR																			
SALMONID STREAM		2.91	25	26	53	31	16	2.90	23	25	47	27	15	3.07	2	1	6	4	1
SALMONID LAKE		3.27	3	5	9	7	6	3.27	3	5	9	7	6	.00	0	0	0	0	0
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
Drainage Ratings:		2.97	28	31	62	38	22	2.96	26	30	56	34	21	3.07	2	1	6	4	1
JEFFERSON DR																			
SALMONID STREAM		2.60	11	7	13	5	4	2.59	11	7	12	5	4	3.00	0	0	1	0	0
SALMONID LAKE		3.03	6	2	13	7	4	3.03	6	2	13	7	4	.00	0	0	0	0	0
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
Drainage Ratings:		2.79	17	9	26	12	8	2.79	17	9	25	12	8	3.00	0	0	1	0	0
KOOTENAI DR																			
SALMONID STREAM		2.85	13	8	14	12	7	2.79	13	7	11	11	6	3.33	0	1	3	1	1
SALMONID LAKE		3.00	15	8	15	10	14	3.04	14	6	12	10	13	2.71	1	2	3	0	1
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		3.00	0	0	2	0	0	3.00	0	0	2	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		4.00	0	0	1	0	1	4.00	0	0	1	0	1	.00	0	0	0	0	0
Drainage Ratings:		2.95	28	16	32	22	22	2.94	27	13	26	21	20	3.00	1	3	6	1	2
LITTLE MISSOURI DR																			
SALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
SALMONID LAKE		5.00	0	0	0	0	1	5.00	0	0	0	0	1	.00	0	0	0	0	0
NONSALMONID STREAM		2.67	1	0	1	1	0	2.67	1	0	1	1	0	.00	0	0	0	0	0
NONSALMONID LAKE		2.00	1	1	1	0	0	2.00	1	1	1	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
Drainage Ratings:		2.71	2	1	2	1	1	2.71	2	1	2	1	1	.00	0	0	0	0	0
MADISON DR																			
SALMONID STREAM		2.87	29	27	38	32	17	2.91	25	21	33	28	16	2.60	4	6	5	4	1
SALMONID LAKE		2.58	6	9	14	1	3	2.46	4	7	12	0	1	2.89	2	2	2	1	2
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		5.00	0	0	0	0	1	5.00	0	0	0	0	1	.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.00	1	1	1	0	0	2.00	1	1	1	0	0	.00	0	0	0	0	0
Drainage Ratings:		2.81	36	37	53	33	21	2.83	30	29	46	28	18	2.69	6	8	7	5	3
MARIAS DR																			
SALMONID STREAM		1.92	6	4	0	1	1	1.92	6	4	0	1	1	.00	0	0	0	0	0
SALMONID LAKE		2.49	19	16	5	9	8	2.52	18	16	5	9	8	1.00	1	0	0	0	0
NONSALMONID STREAM		1.90	3	6	0	1	0	1.90	3	6	0	1	0	.00	0	0	0	0	0
NONSALMONID LAKE		2.32	9	5	7	2	2	2.32	9	5	7	2	2	.00	0	0	0	0	0
UNDESIG STRM MGMT		4.00	0	0	0	1	0	4.00	0	0	0	1	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.17	2	1	3	0	0	2.17	2	1	3	0	0	.00	0	0	0	0	0
Drainage Ratings:		2.33	39	32	15	14	11	2.35	38	32	15	14	11	1.00	1	0	0	0	0

Table 15. Angler satisfaction ratings by drainage by water type for the 1997 "winter" angling angling season March '97 through April '97 and October '97 through February '98 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor		----- excellent			Avg Rate	poor		-----excellent			Avg Rate	poor		----- excellent		
			1's	2's	3's	4's	5's		1's	2's	3's	4's	5's		1's	2's	3's	4's	5's
MILK DR																			
SALMONID STREAM		3.00	1	2	6	2	1	3.00	1	2	6	2	1	.00	0	0	0	0	0
SALMONID LAKE		2.80	14	8	26	11	6	2.80	14	8	26	11	6	.00	0	0	0	0	0
NONSALMONID STREAM		3.44	0	2	4	0	3	3.44	0	2	4	0	3	.00	0	0	0	0	0
NONSALMONID LAKE		2.94	7	5	13	5	6	2.94	7	5	13	5	6	.00	0	0	0	0	0
UNDESIG STRM MGMT		4.00	0	0	0	1	0	4.00	0	0	0	1	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		3.11	1	0	6	1	1	3.11	1	0	6	1	1	.00	0	0	0	0	0
Drainage Ratings:		2.93	23	17	55	20	17	2.93	23	17	55	20	17	.00	0	0	0	0	0
LOWER MISSOURI DR																			
SALMONID STREAM		3.22	6	1	6	9	5	3.23	6	1	5	9	5	3.00	0	0	1	0	0
SALMONID LAKE		2.83	10	2	10	10	3	2.83	10	2	10	10	3	.00	0	0	0	0	0
NONSALMONID STREAM		2.37	24	11	14	6	7	2.37	24	11	14	6	7	.00	0	0	0	0	0
NONSALMONID LAKE		2.95	19	17	27	20	15	2.89	18	17	27	17	13	3.83	1	0	0	3	2
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.60	4	2	1	0	3	2.60	4	2	1	0	3	.00	0	0	0	0	0
Drainage Ratings:		2.79	63	33	58	45	33	2.76	62	33	57	42	31	3.71	1	0	1	3	2
UPPER MISSOURI DR																			
SALMONID STREAM		2.98	59	58	95	57	57	2.99	59	56	94	56	57	2.75	0	2	1	1	0
SALMONID LAKE		2.53	155	77	133	57	53	2.53	154	77	132	57	53	2.00	1	0	1	0	0
NONSALMONID STREAM		2.29	10	5	10	1	2	2.19	10	5	10	1	1	5.00	0	0	0	0	1
NONSALMONID LAKE		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		2.40	2	0	2	1	0	2.40	2	0	2	1	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		3.00	2	2	1	4	1	3.00	2	2	1	4	1	.00	0	0	0	0	0
Drainage Ratings:		2.70	228	142	241	120	113	2.70	227	140	239	119	112	2.86	1	2	2	1	1
MUSSELSHELL DR																			
SALMONID STREAM		2.56	5	3	4	2	2	2.56	5	3	4	2	2	.00	0	0	0	0	0
SALMONID LAKE		2.48	17	8	13	3	7	2.48	17	8	13	3	7	.00	0	0	0	0	0
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		2.13	9	5	7	1	1	2.13	9	5	7	1	1	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.67	0	1	2	0	0	2.67	0	1	2	0	0	.00	0	0	0	0	0
Drainage Ratings:		2.41	31	17	26	6	10	2.41	31	17	26	6	10	.00	0	0	0	0	0
ST MARY DR																			
SALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
SALMONID LAKE		3.60	2	2	2	3	6	3.60	2	2	2	3	6	.00	0	0	0	0	0
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		3.00	0	0	1	0	0	3.00	0	0	1	0	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
Drainage Ratings:		3.56	2	2	3	3	6	3.56	2	2	3	3	6	.00	0	0	0	0	0
SUN DR																			
SALMONID STREAM		2.92	3	0	7	1	2	2.83	3	0	7	0	2	4.00	0	0	0	1	0
SALMONID LAKE		2.34	15	7	7	6	3	2.34	15	7	7	6	3	.00	0	0	0	0	0
NONSALMONID STREAM		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
NONSALMONID LAKE		4.00	0	0	0	1	0	4.00	0	0	0	1	0	.00	0	0	0	0	0
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.50	1	0	0	1	0	2.50	1	0	0	1	0	.00	0	0	0	0	0
Drainage Ratings:		2.52	19	7	14	9	5	2.49	19	7	14	8	5	4.00	0	0	0	1	0



Table 15. Angler satisfaction ratings by drainage by water type for the 1997 "winter" angling angling season March '97 through April '97 and October '97 through February '98 (continued)

Drain- age      Water type		TOTAL					RESIDENT					NONRESIDENT							
		Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's	Avg Rate	poor 1's	----- 2's	----- 3's	----- 4's	----- 5's
LOWER YELLOWSTONE DR																			
SALMONID STREAM		2.94	1	6	5	5	1	3.50	0	1	2	2	1	2.67	1	5	3	3	0
SALMONID LAKE		2.67	0	5	6	1	0	2.67	0	5	6	1	0	.00	0	0	0	0	0
NONSALMONID STREAM		2.72	11	8	15	9	4	2.72	11	8	15	9	4	.00	0	0	0	0	0
NONSALMONID LAKE		2.77	9	8	10	7	5	2.80	3	6	6	2	3	2.74	6	2	4	5	2
UNDESIG STRM MGMT		.00	0	0	0	0	0	.00	0	0	0	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		3.00	0	3	3	3	0	3.00	0	3	2	3	0	3.00	0	0	1	0	0
Drainage Ratings:		2.78	21	30	39	25	10	2.81	14	23	31	17	8	2.72	7	7	8	8	2
UPPER YELLOWSTONE DR																			
SALMONID STREAM		3.08	115	78	152	122	115	3.02	109	74	136	107	99	3.54	6	4	16	15	16
SALMONID LAKE		2.48	63	17	35	13	25	2.48	61	16	32	12	25	2.43	2	1	3	1	0
NONSALMONID STREAM		2.17	13	15	6	7	0	2.20	12	15	6	7	0	1.00	1	0	0	0	0
NONSALMONID LAKE		2.56	2	2	4	0	1	2.56	2	2	4	0	1	.00	0	0	0	0	0
UNDESIG STRM MGMT		2.50	0	1	1	0	0	2.50	0	1	1	0	0	.00	0	0	0	0	0
UNDESIG LAKE MGMT		2.83	2	1	1	0	2	2.83	2	1	1	0	2	.00	0	0	0	0	0
Drainage Ratings:		2.90	195	114	199	142	143	2.86	186	109	180	126	127	3.38	9	5	19	16	16
Total																			
SALMONID STREAM		2.92	410	344	565	388	312	2.90	391	320	513	352	285	3.18	19	24	52	36	27
SALMONID LAKE		2.65	501	286	455	236	224	2.64	487	277	436	227	213	2.90	14	9	19	9	11
NONSALMONID STREAM		2.43	62	47	50	25	16	2.42	61	47	50	25	15	3.00	1	0	0	0	1
NONSALMONID LAKE		2.72	73	52	85	46	35	2.70	65	50	81	38	31	2.92	8	2	4	8	4
UNDESIG STRM MGMT		3.06	3	1	6	4	2	3.07	3	1	4	4	2	3.00	0	0	2	0	0
UNDESIG LAKE MGMT		2.82	16	13	22	12	10	2.85	15	13	21	12	10	2.00	1	0	1	0	0
Statewide Ratings:		2.78	1065	743	1183	711	599	2.76	1022	708	1105	658	556	3.07	43	35	78	53	43

## DISCUSSION

### SCOPE OF ANGLING PRESSURE

The statewide angling pressure survey was conducted from March, 1997 through February, 1998. Estimates of pressure by residents and nonresidents were for licensed anglers only. This would encompass anglers 12 years of age and older. Spence (1971) found that the unlicensed angler (ages 2- 14) comprised 9% of the pressure on Rock Creek near Missoula. Peterson (1970) found that the unlicensed angler accounted for 21% and 19% of the total number of anglers on Big Spring Creek near Lewistown during 1968 and 1969 respectively. On the Bighorn River near Hardin, Stevenson (1975) found that the unlicensed angler accounted for 14.2% and 15.8% of the total number of anglers during 1972 and 1973 respectively. Fredenberg (1984) found that 10% of the anglers on Bighorn Lake and 13% of the anglers on the Yellowtail Afterbay were unlicensed. The 1975 National Fishing and Hunting Survey showed that 23.8% of the anglers nationwide were between the ages of 9 and 17. It appears that the unlicensed angler makes up between 9% to 21% of the fishing pressure depending on the type of water being fished.

Some angling pressure was obtained on Indian reservations and National Parks within Montana. This pressure was incidental to other fishing trips and only included those anglers that had purchased a Montana fishing license. Since national parks and reservations require different licensing, a complete pressure estimate of waters within those regions was not obtained.

### ACCURACY

### SAMPLING

Samples were drawn and questionnaires sent to the selected anglers as soon as possible. This was usually 15-20 days after the wave being sampled had ended (see discussion under Methods for details). Since license dealers are not required to remit copies of licenses sold until the 10th of the following month, the samples may not contain all the eligible anglers for a given period. The months of April through September are most affected by this procedure, since license sales naturally curtail after September.

This means of obtaining a sample may skew the pressure if license dealers from a given area don't remit their licenses in a timely manner. At the present time, there is no way to estimate the extent, if any, of this bias.

### PRESSURE



No significant difference was found between the survey results and on-site creel census for rivers for the statewide angling mail surveys conducted from 1982 through 1985 (McFarland, 1989). When both surveys were conducted simultaneously on lakes and reservoirs, the results again agreed (McFarland, 1989). The same methodology was used in this survey as was used in those conducted from 1982 through 1985 and in 1989 (McFarland, 1991). At the time this report was written, no published results were available for creel census conducted during the same time frame so no direct comparisons could be made.

## RETURN RATES

Return rates (# of respondents / [# of surveys sent - nondeliverables] \* 100) were calculated for every wave by residency. The average total return rates for residents and nonresidents were 60.2% and 52.7% respectively (Table 16). Nonresident return rates for season license holders was 69.0% and was less for 2-day license buyers at 44.7%.

Table 16. Return rates for the 1997 state-wide angling survey year by wave by resident and nonresident.		
WAVE	Total Return Rates	
	Resident	Nonresident
1	60.9	54.2
2	52.1	59.7
3	63.0	65.9
4	59.9	85.1
5	59.9	64.4
6	57.5	71.9
7	61.0	69.9
8	60.8	66.5
9	58.1	65.3
10	62.4	69.0
11	62.7	67.7
12	62.6	70.7
99		44.7

## NON-RESPONSE BIAS

Telephone calls were made to a random sample of non-respondents for the months of May through August. Due to budgetary constraints and personnel problems the number of phone calls made was very limited and not valid to make a statistical comparison.

## NUMBER OF LICENSED ANGLERS VS PRESSURE

The number of resident anglers has increased for the period 1982 to 1985 and then decreased until 1989 and then continued to steadily increase until 1997 when it dropped slightly (Table 17).

The number of nonresident anglers during this same period decreased initially and then increased so that overall, the total number of anglers remained fairly static until 1993. In 1994 there was a 5.4% increase from the previous year in the total number of licensed anglers in Montana. The number of licensed anglers then dropped for both residents and nonresidents for the 1995 license year but was still above the number of licensed anglers for 1993.

Table 17. Number of licensed anglers from 1982 through 1997 by residency.

Year	Resident Anglers	Nonresident Anglers
1982	216,689	119,293
1983	217,483	116,875
1984	232,485	102,843
1985	236,455	106,304
1986	235,403	100,456
1987	233,111	103,936
1988	219,299	108,471
1989	216,412	114,254
1990	217,370	119,611
1991	221,723	138,243
1992	222,186	134,212
1993	226,992	151,192
1994	233,630	164,841
1995	227,849	153,887
1996	227,282	150,881
1997	222,442	151,244

Comparing statewide angling use from the mail survey versus number of anglers shows some correlation for residents in the recent years (1989-1997), while nonresidents seem to have some association between number of anglers and the amount of use exerted (Charts 5 & 6) with the exception of 1991. In 1991 the number of nonresident anglers increased while the pressure exerted by nonresidents decreased. In 1997 the pressure exerted by nonresident anglers increased while the number of nonresident anglers remained fairly static.



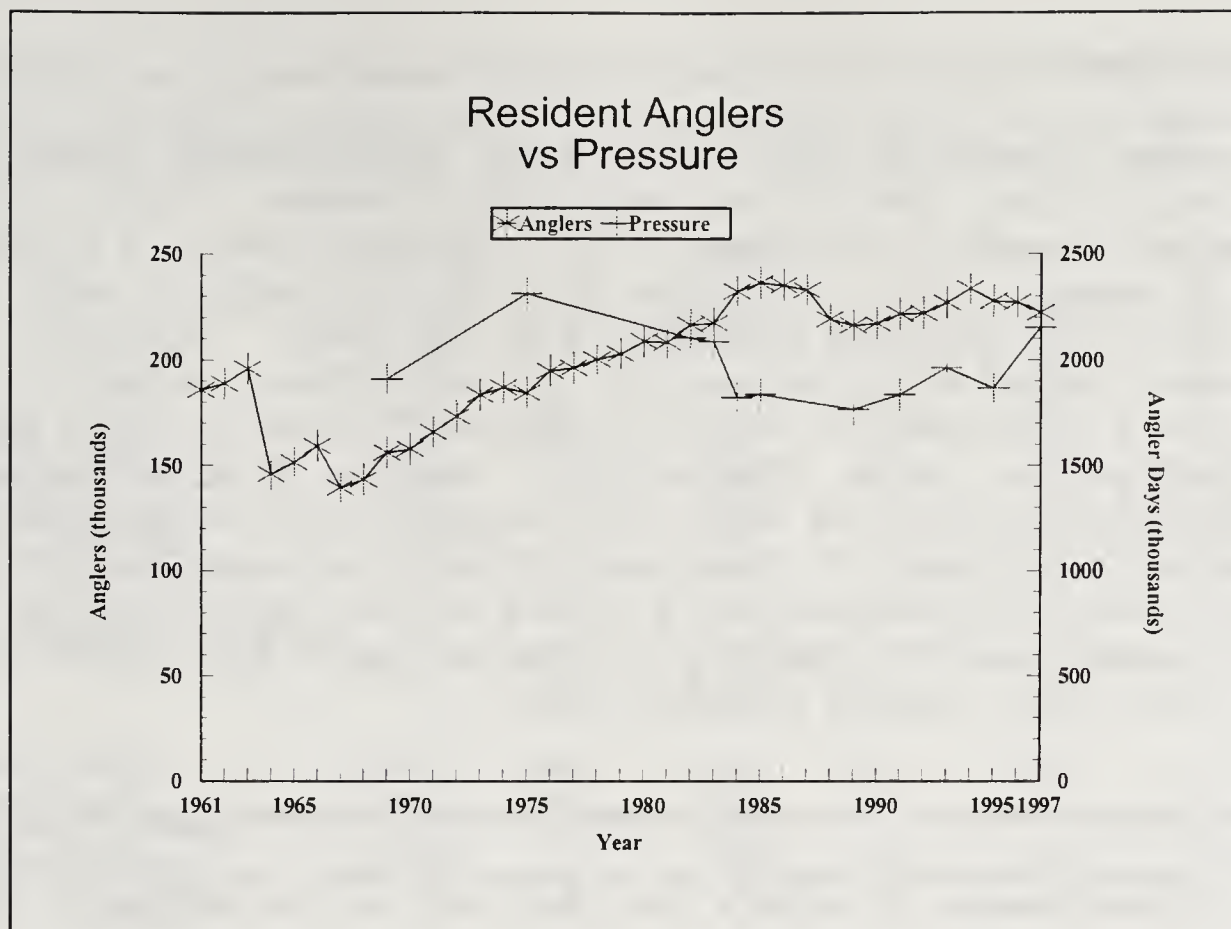


Chart 5. Angling pressure versus number of anglers for residents from 1961 to 1997.

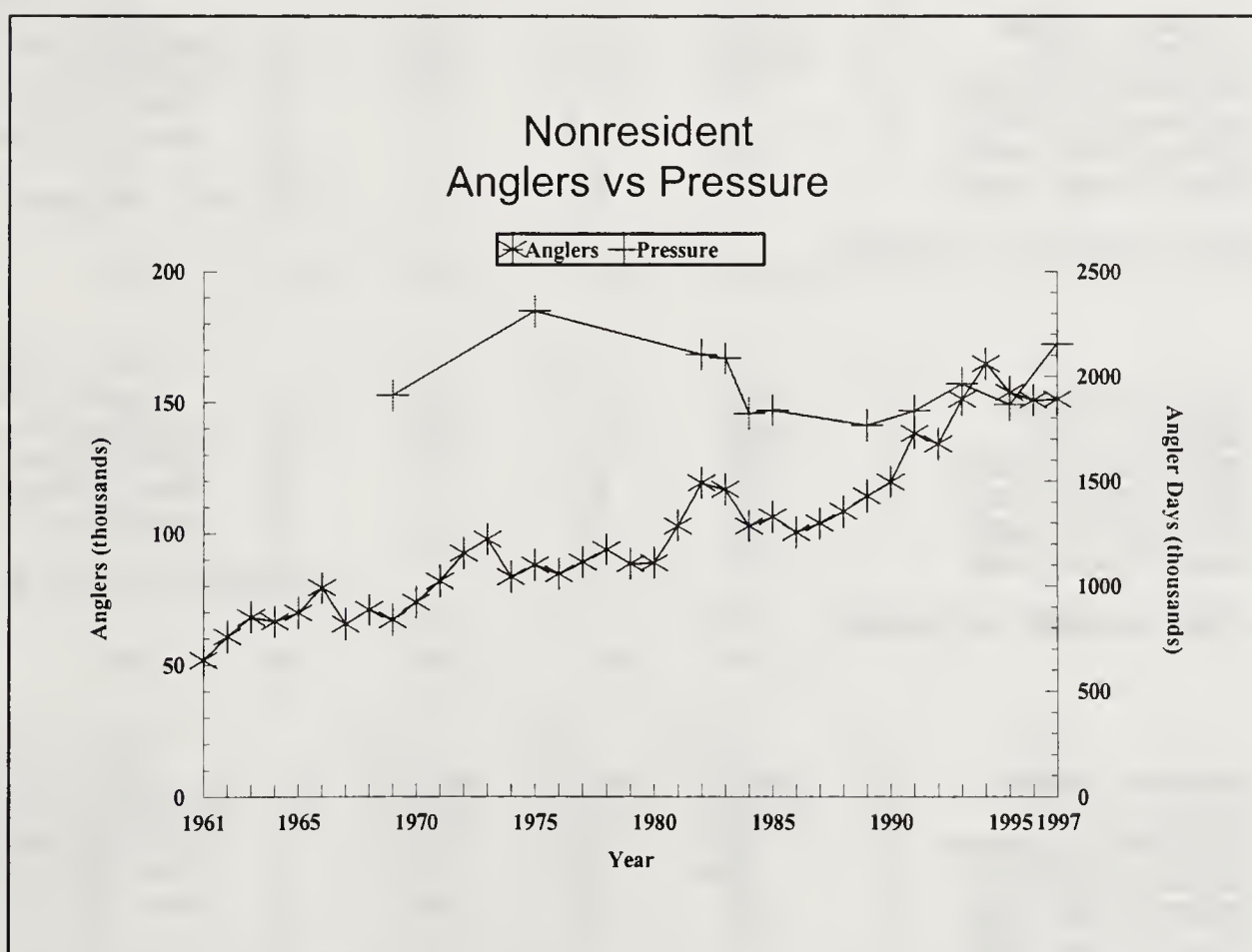


Chart 6. Angling pressure versus number of anglers for nonresidents from 1961 to 1997.

## Whirling Disease

Anglers were asked if the water they fished was their second choice because their first choice had whirling disease. Only 1.2% (321) of the respondents stated that they had changed their fishing because of whirling disease. This accounted for 39,194 angling days of pressure or 1.4% of the total angling pressure for the year. Appendix C contains the angling use listed alphabetically by individual water.

Region 3 had most of the reallocated pressure from whirling disease with 15,647 angler days (Table 18). Region 7 had the least amount of redistributed angling use with 336 angler days of pressure. By drainage, the upper Yellowstone River drainage received the most of the redistributed pressure with 6,896 angler days (Table 19). The Little Missouri and St. Mary's drainages were the least with each receiving no reallocated angling use.

Table 18. Angling pressure in angler days by region by water type for those waters that were fished because the angler's first choice had whirling disease.

REG	WATER TYPE	-----TOTALS-----		----RESIDENTS----		--NON-RESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
1	SALMONID STREAM	2424.	60.	1731.	45.	693.	15.
	SALMONID LAKE	2546.	60.	1528.	48.	1018.	12.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	34.	1.	0.	0.	34.	1.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	5004.	121.	3259.	93.	1745.	28.
2	SALMONID STREAM	2230.	66.	1712.	50.	518.	16.
	SALMONID LAKE	1055.	30.	919.	26.	136.	4.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	449.	6.	59.	2.	390.	4.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	3734.	102.	2690.	78.	1044.	24.
3	SALMONID STREAM	11240.	246.	4976.	118.	6264.	128.
	SALMONID LAKE	4149.	90.	2927.	56.	1222.	34.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	78.	2.	78.	2.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	15467.	338.	7981.	176.	7486.	162.



Table 18. Angling pressure in angler days by region by water type for those waters that were fished because the angler's first choice had whirling disease. (continued)

REG	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		--NON-RESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
4							
	SALMONID STREAM	1951.	56.	1611.	46.	340.	10.
	SALMONID LAKE	3590.	103.	3297.	94.	293.	9.
	NONSALMONID STREAM	135.	4.	135.	4.	0.	0.
	NONSALMONID LAKE	209.	7.	209.	7.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	23.	1.	23.	1.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	5908.	171.	5275.	152.	633.	19.
5							
	SALMONID STREAM	4723.	140.	2744.	81.	1979.	59.
	SALMONID LAKE	566.	17.	566.	17.	0.	0.
	NONSALMONID STREAM	117.	3.	117.	3.	0.	0.
	NONSALMONID LAKE	69.	3.	69.	3.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	5475.	163.	3496.	104.	1979.	59.
6							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	261.	7.	193.	5.	68.	2.
	NONSALMONID STREAM	1005.	15.	1005.	15.	0.	0.
	NONSALMONID LAKE	609.	17.	609.	17.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	1875.	39.	1807.	37.	68.	2.
7							
	SALMONID STREAM	175.	10.	0.	0.	175.	10.
	SALMONID LAKE	23.	1.	23.	1.	0.	0.
	NONSALMONID STREAM	138.	6.	138.	6.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
	REGIONAL PRESSURE ESTIMATES:	336.	17.	161.	7.	175.	10.
TOTAL							
	SALMONID STREAM	22743.	578.	12774.	340.	9969.	238.
	SALMONID LAKE	12190.	308.	9453.	247.	2737.	61.
	NONSALMONID STREAM	1395.	28.	1395.	28.	0.	0.
	NONSALMONID LAKE	887.	27.	887.	27.	0.	0.
	UNDESIG STRM MGMT	1956.	31.	480.	13.	1476.	18.
	UNDESIG LAKE MGMT	23.	1.	23.	1.	0.	0.
	STATEWIDE PRESSURE ESTIMATES:	39194.	973.	25012.	656.	14182.	317.

Table 19. Angling pressure in angler days by drainage by water type for those waters that were fished because the angler's first choice had whirling disease.

DRAIN	WATER TYPE	-----TOTALS-----		----RESIDENTS----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
BEAVERHEAD DR							
	SALMONID STREAM	1482.	41.	0.	0.	1482.	41.
	SALMONID LAKE	482.	21.	115.	5.	367.	16.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		1964.	62.	115.	5.	1849.	57.
BIG HOLE DR							
	SALMONID STREAM	1132.	27.	472.	13.	660.	14.
	SALMONID LAKE	59.	2.	59.	2.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		1191.	29.	531.	15.	660.	14.
BITTERROOT DR							
	SALMONID STREAM	268.	9.	124.	4.	144.	5.
	SALMONID LAKE	39.	1.	39.	1.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	390.	4.	0.	0.	390.	4.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		697.	14.	163.	5.	534.	9.
BLACKFOOT DR							
	SALMONID STREAM	769.	23.	565.	17.	204.	6.
	SALMONID LAKE	733.	21.	733.	21.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	59.	2.	59.	2.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		1561.	46.	1357.	40.	204.	6.
LOWER CLARK FORK DR							
	SALMONID STREAM	1432.	33.	1011.	26.	421.	7.
	SALMONID LAKE	1097.	14.	147.	4.	950.	10.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		2529.	47.	1158.	30.	1371.	17.



Table 19. Angling pressure in angler days by drainage by water type for those waters that were fished because the angler's first choice had whirling disease. (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
UPPER CLARK FORK DR							
	SALMONID STREAM	765.	23.	595.	18.	170.	5.
	SALMONID LAKE	136.	4.	0.	0.	136.	4.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		901.	27.	595.	18.	306.	9.
LOWER FLATHEAD DR							
	SALMONID STREAM	832.	22.	764.	20.	68.	2.
	SALMONID LAKE	1528.	48.	1528.	48.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		2360.	70.	2292.	68.	68.	2.
UPPER FLATHEAD DR							
	SALMONID STREAM	175.	5.	39.	1.	136.	4.
	SALMONID LAKE	0.	0.	0.	0.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		175.	5.	39.	1.	136.	4.
GALLATIN DR							
	SALMONID STREAM	1420.	40.	1144.	30.	276.	10.
	SALMONID LAKE	380.	4.	0.	0.	380.	4.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		1800.	44.	1144.	30.	656.	14.
JEFFERSON DR							
	SALMONID STREAM	903.	19.	903.	19.	0.	0.
	SALMONID LAKE	271.	7.	271.	7.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		1174.	26.	1174.	26.	0.	0.

Table 19. Angling pressure in angler days by drainage by water type for those waters that were fished because the angler's first choice had whirling disease. (continued)

DRAIN	WATER TYPE	-----TOTALS-----		----RESIDENTS----		---NONRESIDENTS---	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
KOOTENAI DR							
	SALMONID STREAM	413.	11.	345.	9.	68.	2.
	SALMONID LAKE	68.	2.	0.	0.	68.	2.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	34.	1.	0.	0.	34.	1.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		515.	14.	345.	9.	170.	5.
LITTLE MISSOURI DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	0.	0.	0.	0.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		0.	0.	0.	0.	0.	0.
MADISON DR							
	SALMONID STREAM	4320.	71.	1411.	30.	2909.	41.
	SALMONID LAKE	824.	23.	349.	9.	475.	14.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	78.	2.	78.	2.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		5222.	96.	1838.	41.	3384.	55.
MARIAS DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	563.	16.	563.	16.	0.	0.
	NONSALMONID STREAM	59.	2.	59.	2.	0.	0.
	NONSALMONID LAKE	148.	5.	148.	5.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		770.	23.	770.	23.	0.	0.
MILK DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	261.	7.	193.	5.	68.	2.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	76.	2.	76.	2.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		337.	9.	269.	7.	68.	2.



Table 19. Angling pressure in angler days by drainage by water type for those waters that were fished because the angler's first choice had whirling disease. (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LOWER MISSOURI DR							
	SALMONID STREAM	78.	2.	78.	2.	0.	0.
	SALMONID LAKE	38.	1.	38.	1.	0.	0.
	NONSALMONID STREAM	1081.	17.	1081.	17.	0.	0.
	NONSALMONID LAKE	571.	16.	571.	16.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		1768.	36.	1768.	36.	0.	0.
UPPER MISSOURI DR							
	SALMONID STREAM	2190.	65.	1850.	55.	340.	10.
	SALMONID LAKE	4583.	104.	4290.	95.	293.	9.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		6773.	169.	6140.	150.	633.	19.
MUSSELSHELL DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	287.	8.	287.	8.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	23.	1.	23.	1.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		310.	9.	310.	9.	0.	0.
ST MARY DR							
	SALMONID STREAM	0.	0.	0.	0.	0.	0.
	SALMONID LAKE	0.	0.	0.	0.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		0.	0.	0.	0.	0.	0.
SUN DR							
	SALMONID STREAM	107.	3.	39.	1.	68.	2.
	SALMONID LAKE	321.	9.	321.	9.	0.	0.
	NONSALMONID STREAM	0.	0.	0.	0.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	23.	1.	23.	1.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		451.	13.	383.	11.	68.	2.

Table 19. Angling pressure in angler days by drainage by water type for those waters that were fished because the angler's first choice had whirling disease. (continued)

DRAIN	WATER TYPE	-----TOTALS-----		-----RESIDENTS-----		-----NONRESIDENTS-----	
		PRESSURE	TRIPS	PRESSURE	TRIPS	PRESSURE	TRIPS
LOWER YELLOWSTONE DR							
	SALMONID STREAM	175.	10.	0.	0.	175.	10.
	SALMONID LAKE	23.	1.	23.	1.	0.	0.
	NONSALMONID STREAM	138.	6.	138.	6.	0.	0.
	NONSALMONID LAKE	69.	3.	69.	3.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		405.	20.	230.	10.	175.	10.
UPPER YELLOWSTONE DR							
	SALMONID STREAM	6282.	174.	3434.	95.	2848.	79.
	SALMONID LAKE	497.	15.	497.	15.	0.	0.
	NONSALMONID STREAM	117.	3.	117.	3.	0.	0.
	NONSALMONID LAKE	0.	0.	0.	0.	0.	0.
	UNDESIG STRM MGMT	0.	0.	0.	0.	0.	0.
	UNDESIG LAKE MGMT	0.	0.	0.	0.	0.	0.
DRAINAGE PRESSURE ESTIMATES:							
		6896.	192.	4048.	113.	2848.	79.
TOTAL							
	SALMONID STREAM	22743.	578.	12774.	340.	9969.	238.
	SALMONID LAKE	12190.	308.	9453.	247.	2737.	61.
	NONSALMONID STREAM	1395.	28.	1395.	28.	0.	0.
	NONSALMONID LAKE	887.	27.	887.	27.	0.	0.
	UNDESIG STRM MGMT	1956.	31.	480.	13.	1476.	18.
	UNDESIG LAKE MGMT	23.	1.	23.	1.	0.	0.
STATEWIDE PRESSURE ESTIMATES:							
		39194.	973.	25012.	656.	14182.	317.



## CONCLUSIONS AND RECOMMENDATIONS

The statewide angling pressure mail survey continues to provide invaluable data on individual bodies of water as well as statewide estimates.

The survey also provides a basis for angler satisfaction on individual water bodies. With time, this data can be an invaluable tool to aid fisheries managers in assessing the public perception on how well they are doing managing individual waters.

Nonresident big game license holders need to be sampled to see if the rate of fishing has changed within this segment of the angling public.

It is recommended that the survey continue to be conducted every other year. This will provide long-term trend data.

Phone surveys need to be conducted to ascertain the non-response bias if any.

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## APPENDIX A

### Examples of questionnaires





# Montana Fish, Wildlife & Parks

please return bottom portion

Dear Angler,

We are conducting a monthly survey sent to a random sample of fishing license holders. This survey provides important data to help determine fishing pressure on the lakes and streams of Montana. By providing us with this vital information, you will be assisting us in properly managing Montana's fish population.

This survey requests only YOUR fishing activities. Include ALL waters fished during the month of JULY, 1997. If you fished one of the streams on the back of this form, please include the section number to aid us in identifying the portion of the stream. All information you provide will be held in strict confidence. We appreciate your continued cooperation in returning this survey at your earliest convenience.

**\*\*EVEN IF YOU DID NOT FISH OR CATCH ANY FISH, PLEASE FILL OUT AND RETURN THIS QUESTIONNAIRE.\*\***

Did you fish in Montana during the month of JULY, 1997?

- ☐ Yes - If yes, total number of days fished \_\_\_\_\_? Please continue below.
- ☐ No - If no, stop here and return form.

**\*\*ENTER EACH WATER FISHED ON A SEPARATE LINE. (YOUR fishing only)**

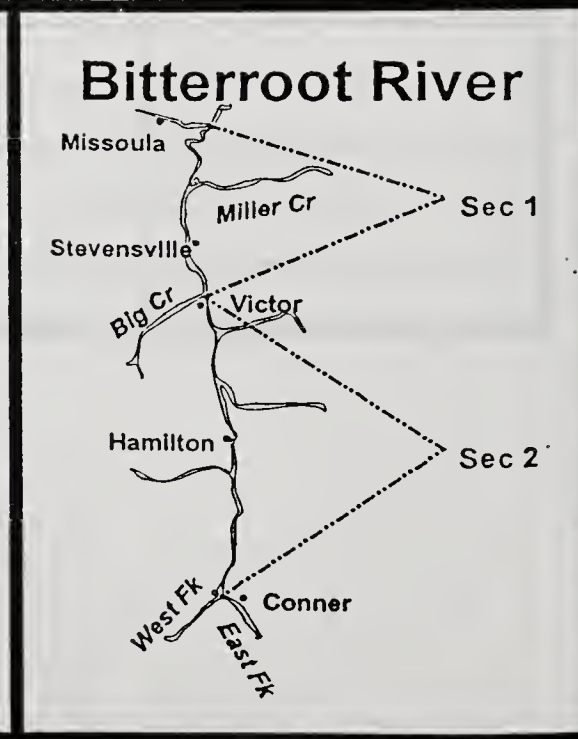
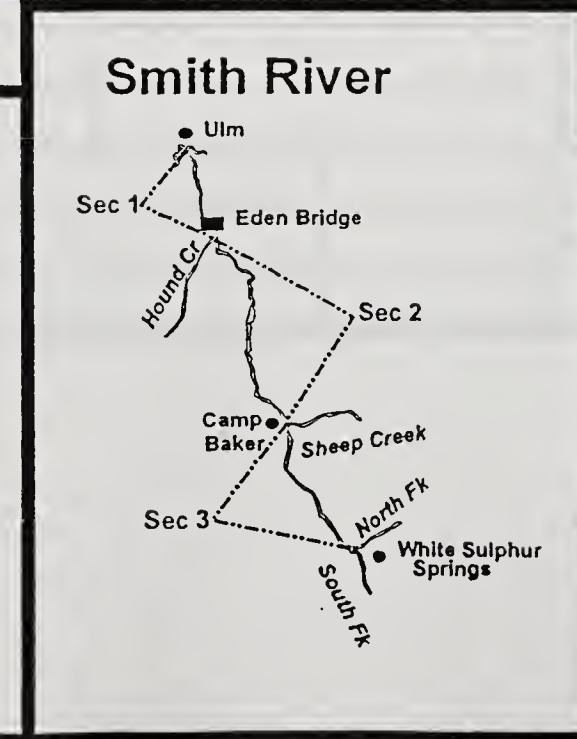
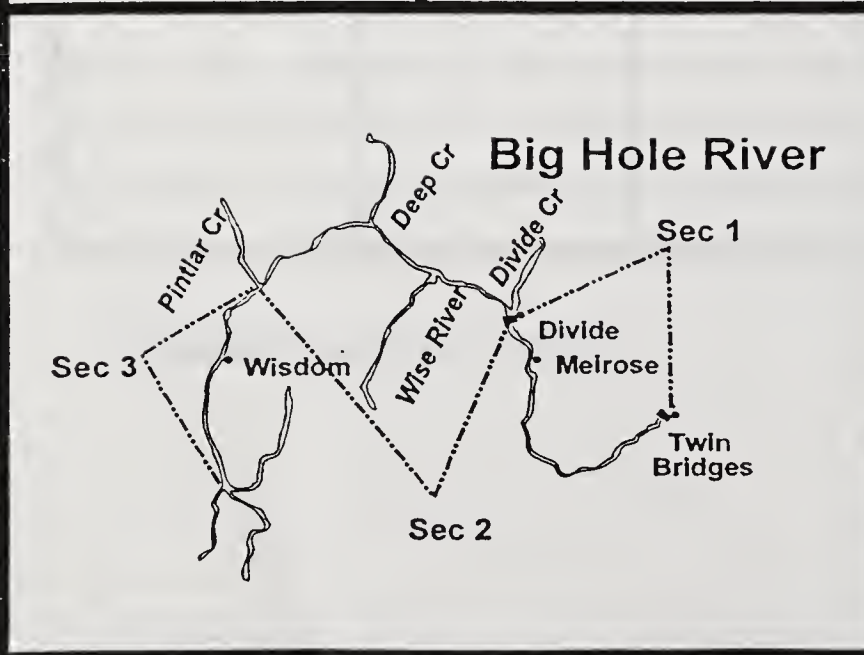
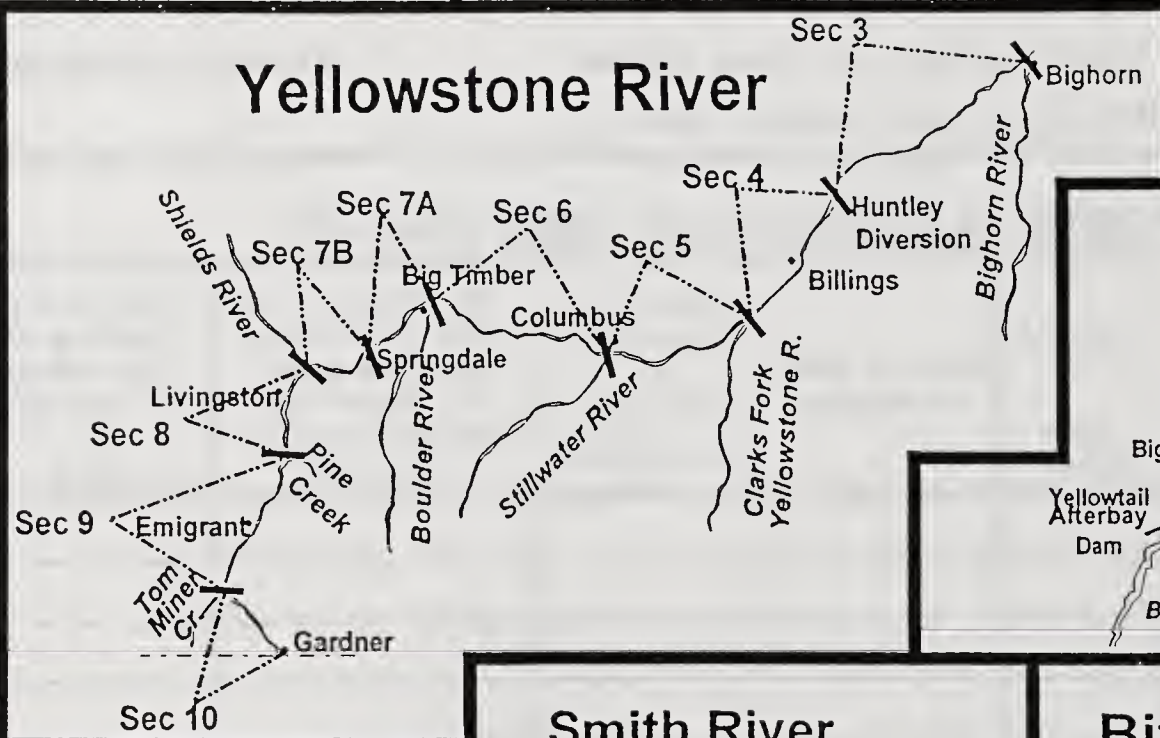
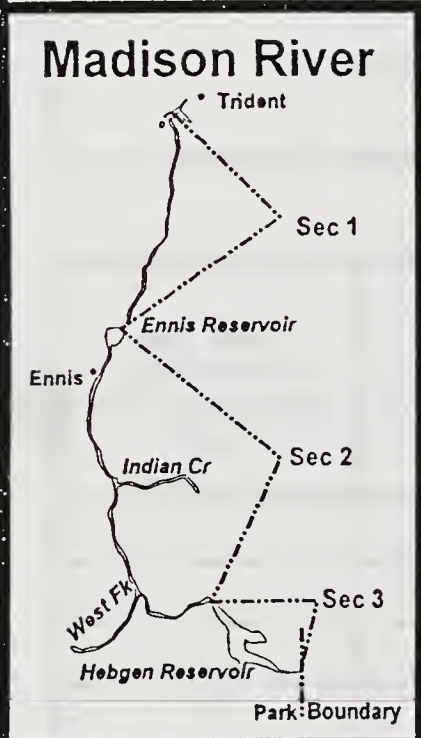
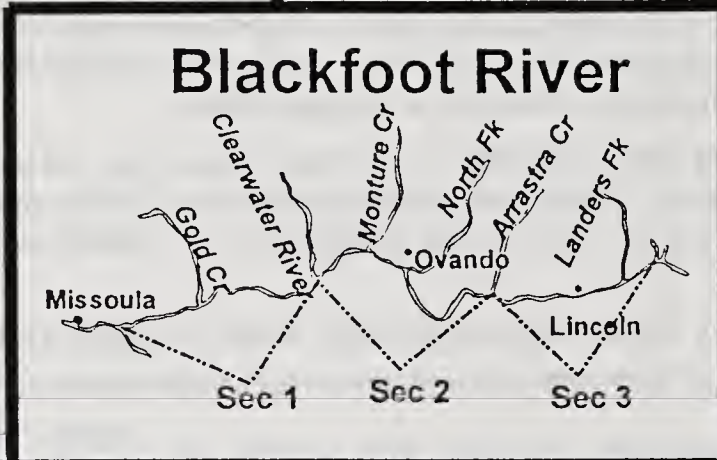
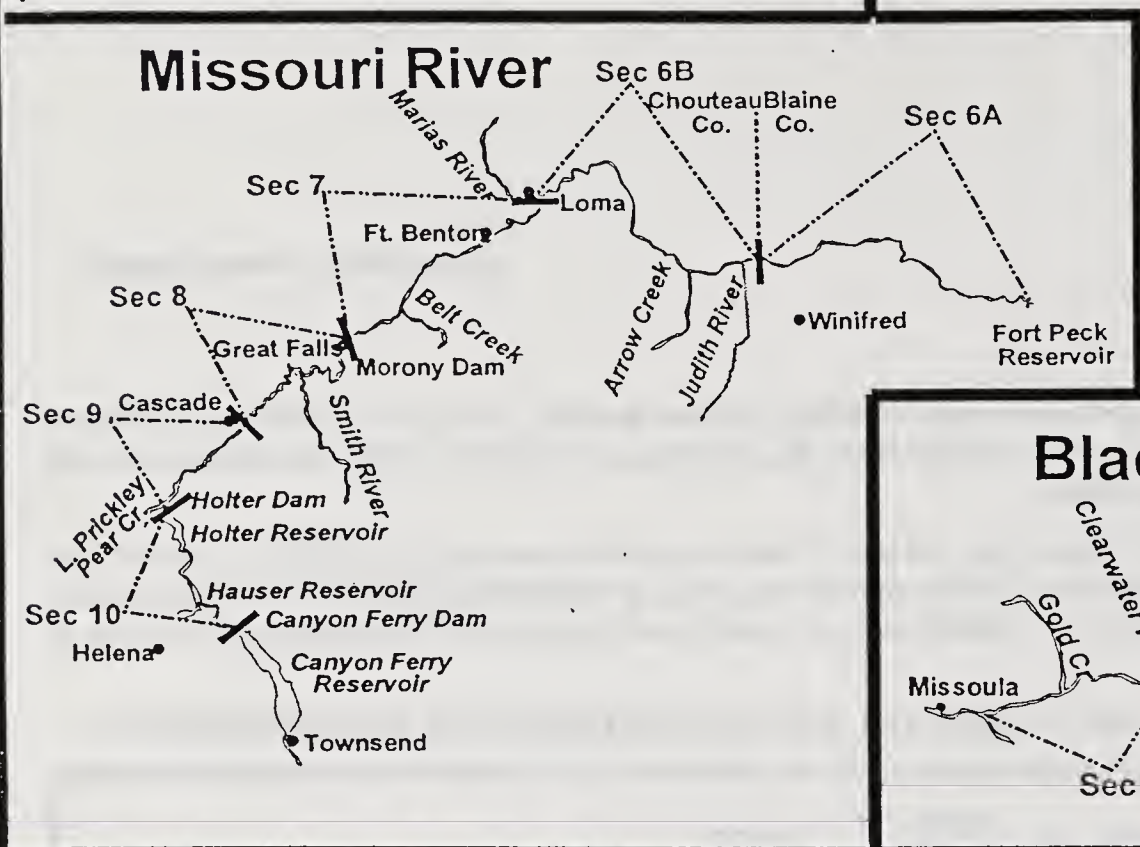
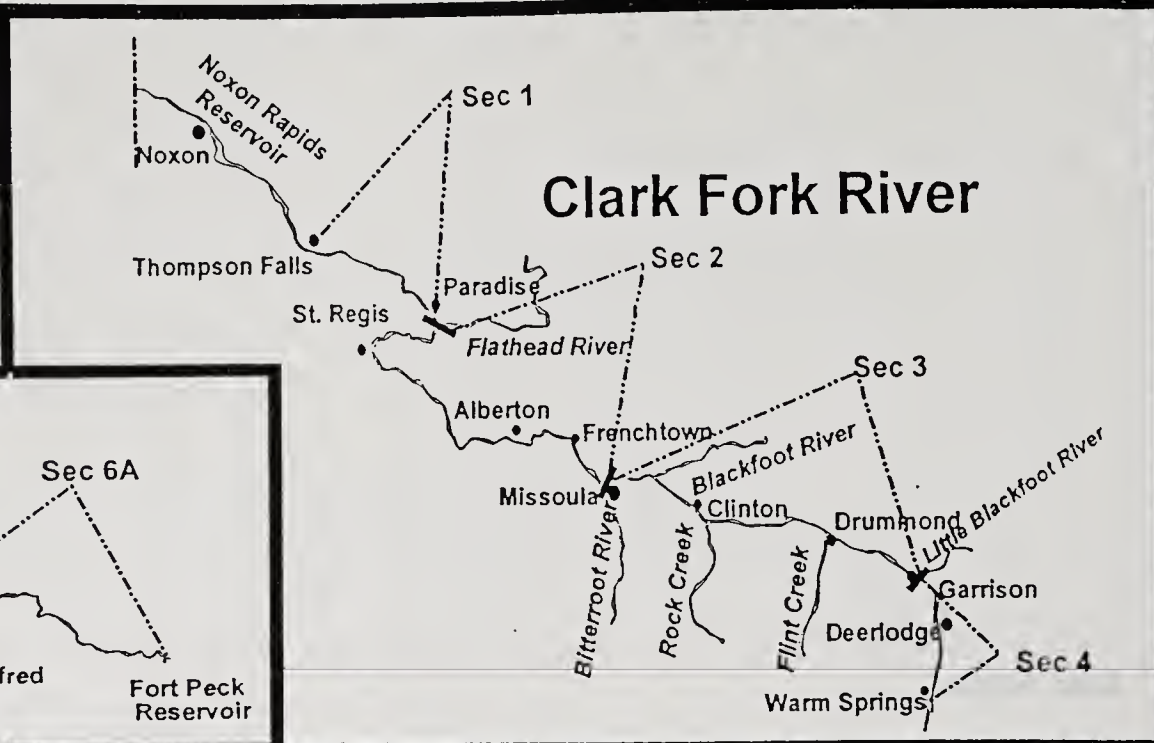
Name of Lake or Stream Fished	Section # (See back)	Nearest Town or County	Number of Days Fished on each water in <b>JULY</b>	Was this water your 2nd choice because your 1st choice has Whirling Disease? (Y or N)	Rate your fishing on this water: 5 = excellent to 1 = poor	What one species did you primarily fish for?

Thank you for your consideration.



WE NEED INFORMATION ON ALL WATERS FISHED IN MONTANA NOT JUST THE WATERS INCLUDED ON THIS PAGE.  
SPECIFIC SECTIONS OF MONTANA WATERS THAT ARE DIFFICULT TO IDENTIFY

We need information on all waters fished in Montana, not just the waters included on this page. If you fished one of the rivers indicated on a map, please enter the specific section number in the appropriate space on the questionnaire form. For waters other than those indicated on a map, (this includes the Flathead, Milk River, eastern sections of the Missouri and Yellowstone, etc.) please be very specific as to the name of the lake, stream, or reservoir and the nearest town, point of access, or landmark to facilitate identification.





# Montana Fish, Wildlife & Parks

please return bottom portion

Dear Angler,

We recently mailed you a request for information on your fishing in Montana. As you may recall, we are conducting a survey sent once a month to a random sample of fishing license holders. This survey provides important data to help determine fishing pressure on the lakes and streams of Montana. By providing us with this vital information, you will be assisting us in properly managing Montana's fish population.

This survey requests only YOUR fishing activities. Include ALL waters fished during the month of SEPTEMBER, 1997. If you fished one of the streams on the back of this form, please include the section number to aid us in identifying the portion of the stream. All information you provide will be held in strict confidence. We appreciate your continued cooperation in returning this survey at your earliest convenience.

**\*\*EVEN IF YOU DID NOT FISH OR CATCH ANY FISH, PLEASE FILL OUT AND RETURN THIS QUESTIONNAIRE.\*\***

Did you fish in Montana during the month of **SEPTEMBER, 1997?**

- ☐ Yes - If yes, total number of days fished \_\_\_\_\_? Please continue below.
- ☐ No - If no, stop here and return form.

**\*\*ENTER EACH WATER FISHED ON A SEPARATE LINE. (YOUR fishing only)**

Name of Lake or Stream Fished	Section # (if it applies- See back)	Nearest Town or County	Number of Days Fished on each water in <u>SEPTEMBER</u>	Was this water your 2nd choice because your 1st choice has Whirling Disease? (Y or N)	Rate your fishing on this water: 5 = excellent to 1 = poor	What one species did you primarily fish for?

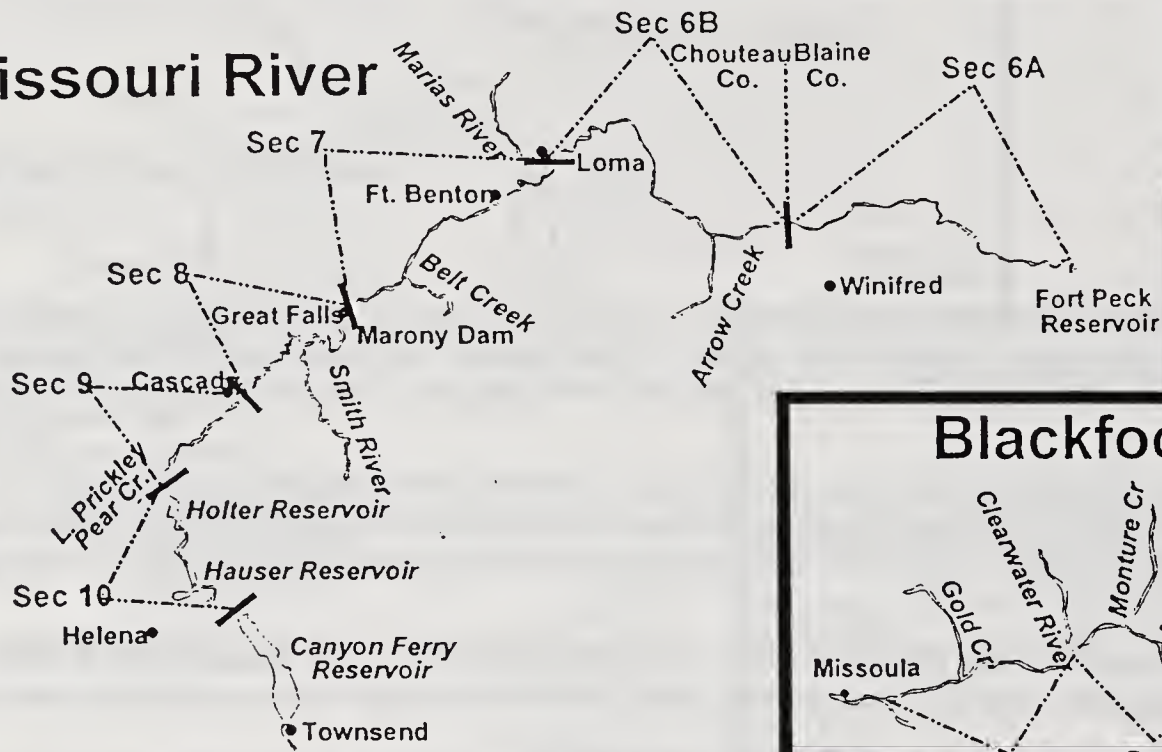
Thank you for your consideration.



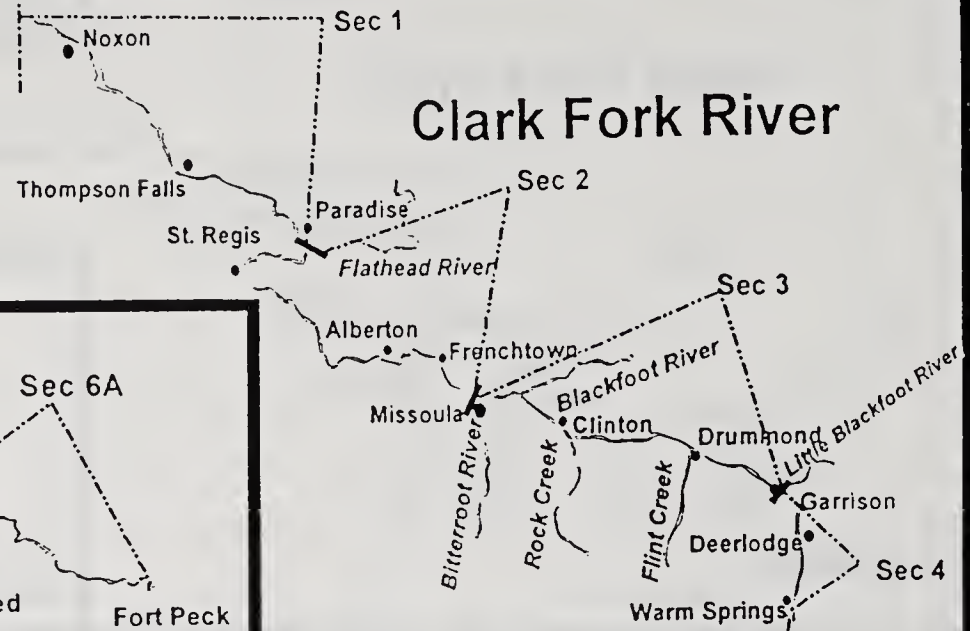
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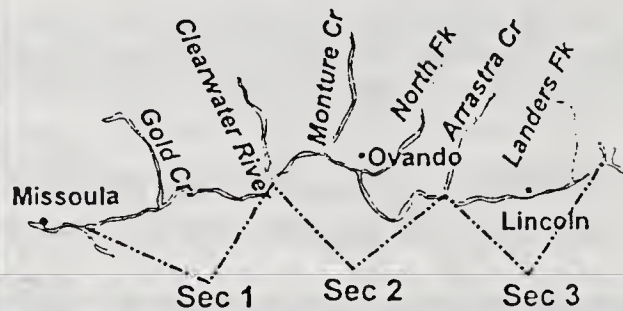
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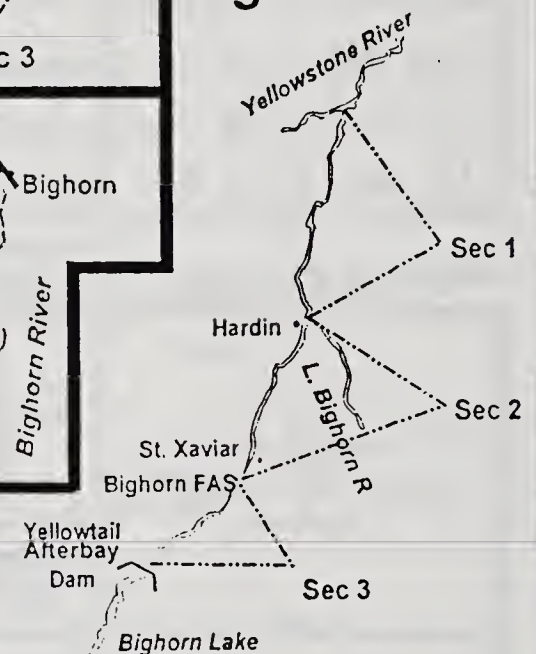
## Clark Fork River



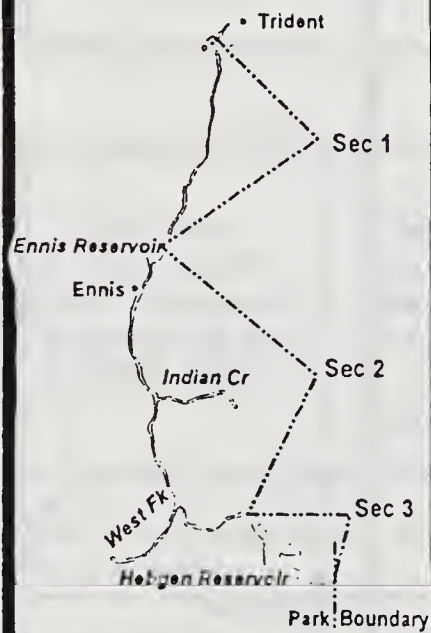
## Blackfoot River



## Bighorn River



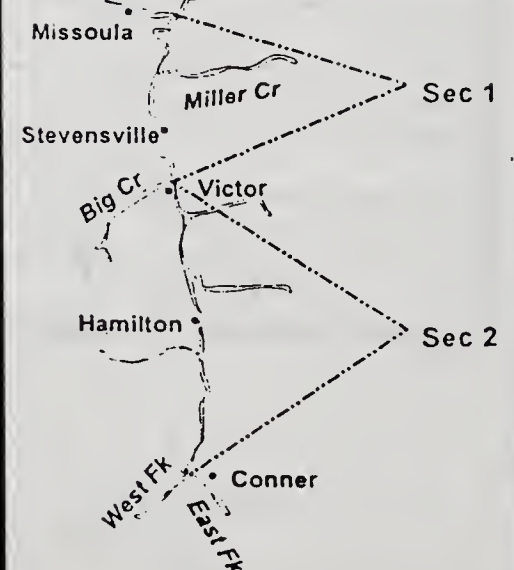
## Madison River



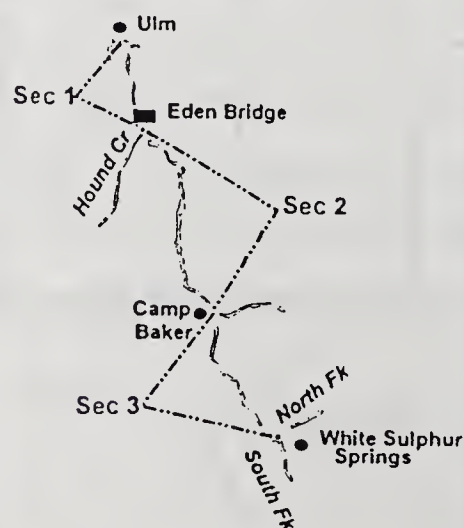
## Yellowstone River



## Bitterroot River



## Smith River



## Big Hole River





# Montana Fish, Wildlife & Parks

-----  
please return bottom portion  
-----

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We are conducting a monthly survey sent to a random sample of fishing license holders. This survey provides important data to help determine fishing pressure on the lakes and streams of Montana. By providing us with this vital information, you will be assisting us in properly managing Montana's fish population.

This survey requests only YOUR fishing activities. Include ALL waters fished in Montana for the time indicated. If you fished one of the streams on the back of this form, please include the section number to aid us in identifying the portion of the stream. All information you provide will be held in strict confidence. We appreciate your continued cooperation in returning this survey at your earliest convenience.

**\*\*EVEN IF YOU DID NOT FISH OR CATCH ANY FISH, PLEASE FILL OUT AND RETURN THIS QUESTIONNAIRE.\*\***

Did you purchase a license to hunt in Montana between March 1, 1997 and February 28, 1998?

☐ Yes      ☐ No

Did you purchase a license to fish in Montana between March 1, 1997 and February 28, 1998?

☐ Yes - If yes, total number of days fished \_\_\_\_\_.

Type of license purchased: ☐ Non-Resident season

☐ 2-day: How many did you purchase for only your use? \_\_\_\_\_

Enter EACH WATER FISHED IN MONTANA during this time period on a separate line below.

☐ No - If no, stop here and return form.

**\*\*ENTER EACH WATER FISHED ON A SEPARATE LINE. (YOUR fishing only)**

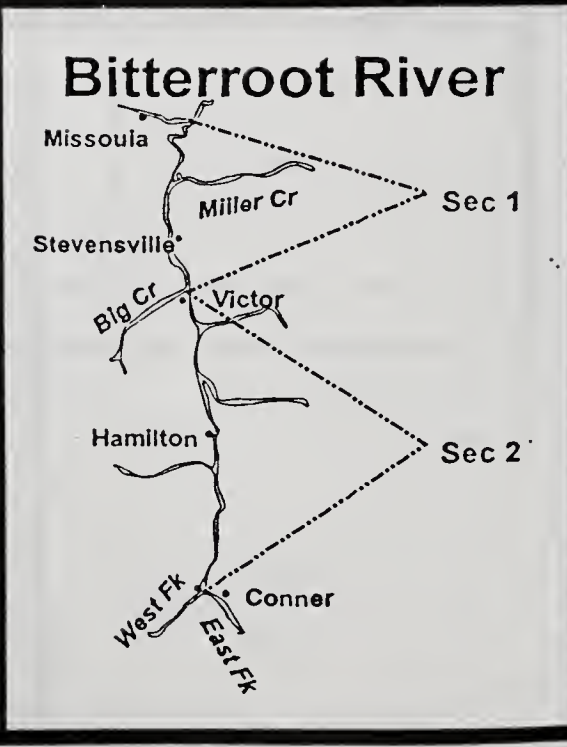
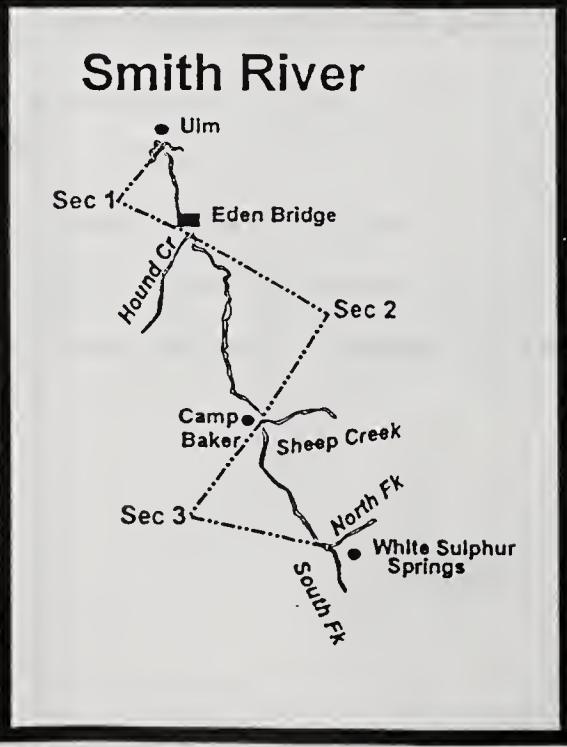
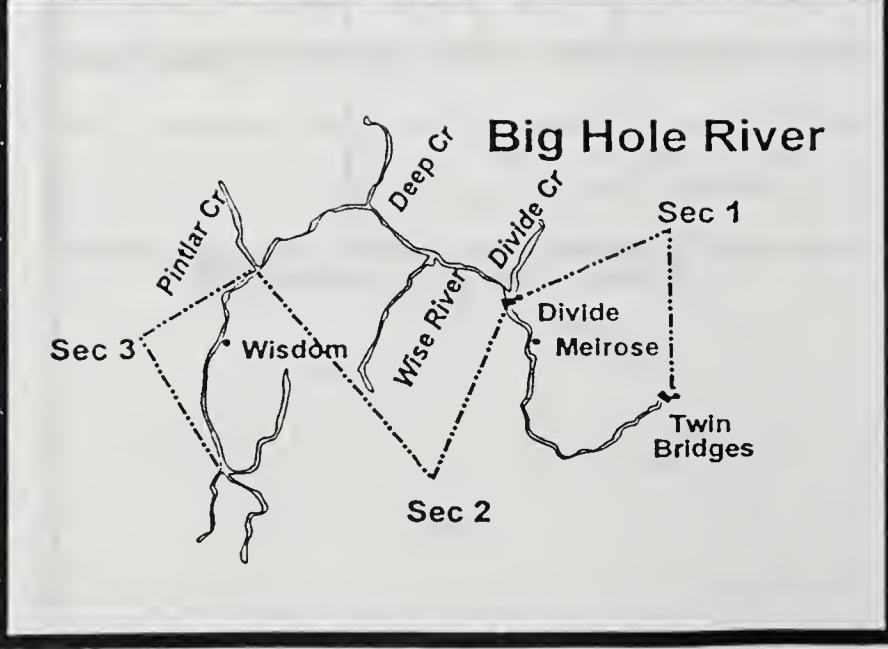
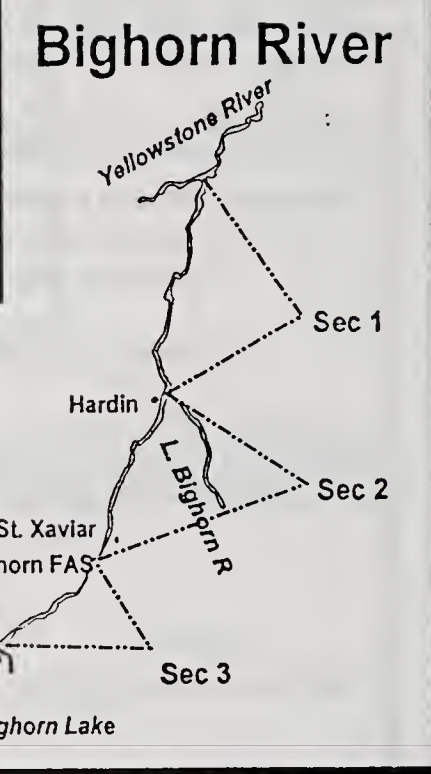
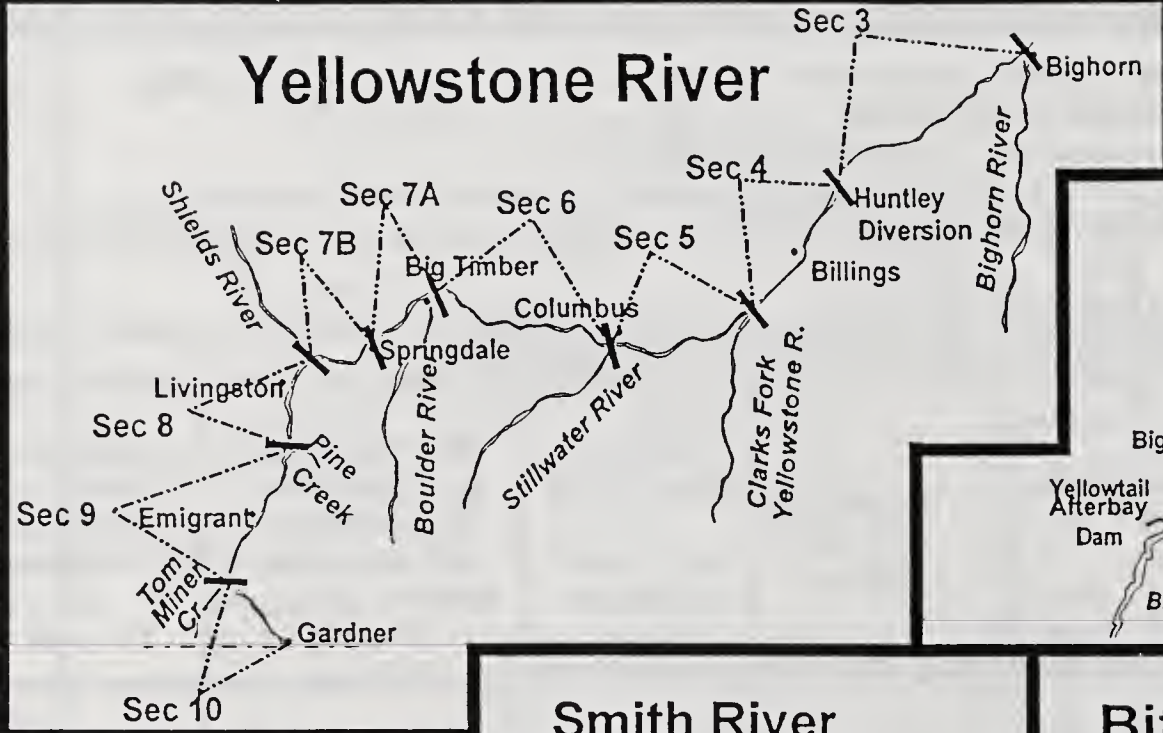
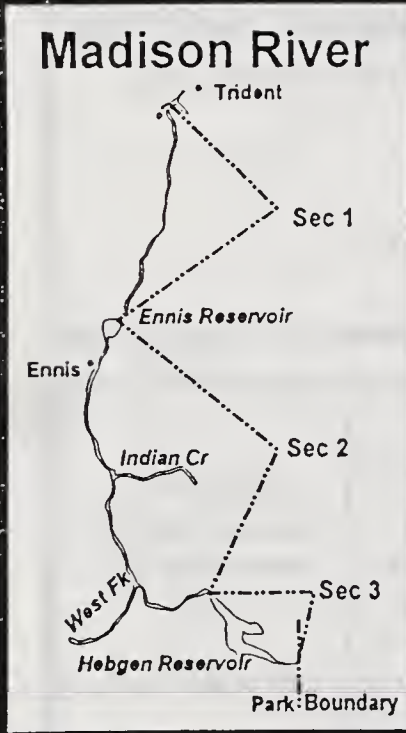
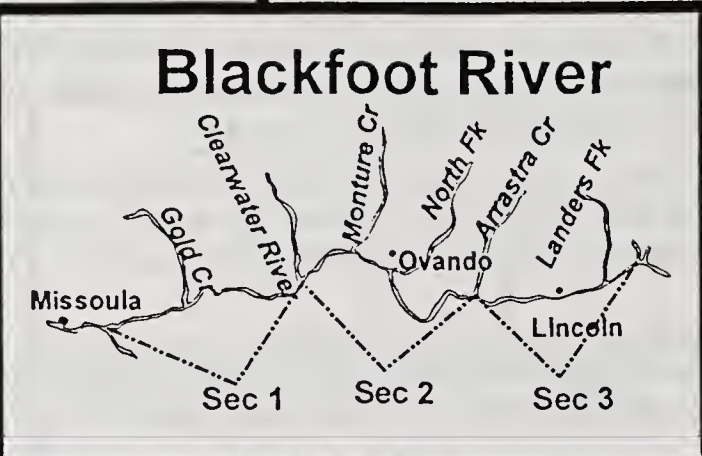
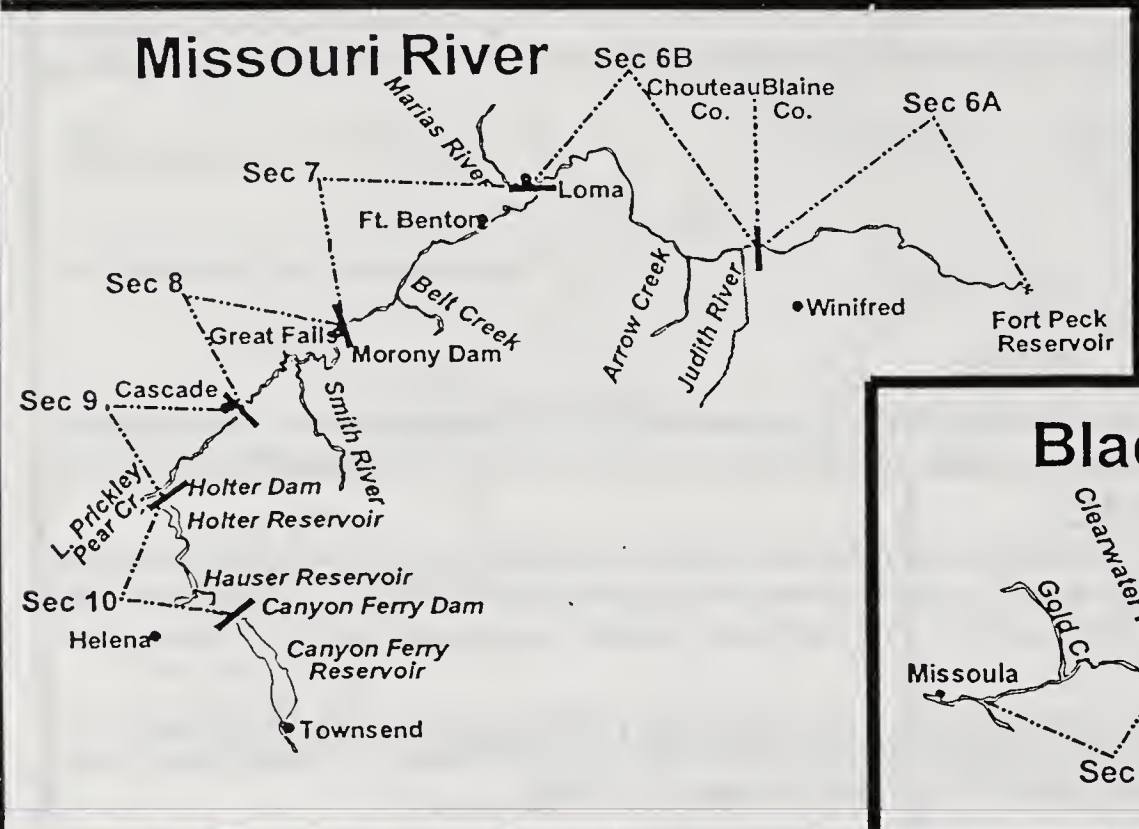
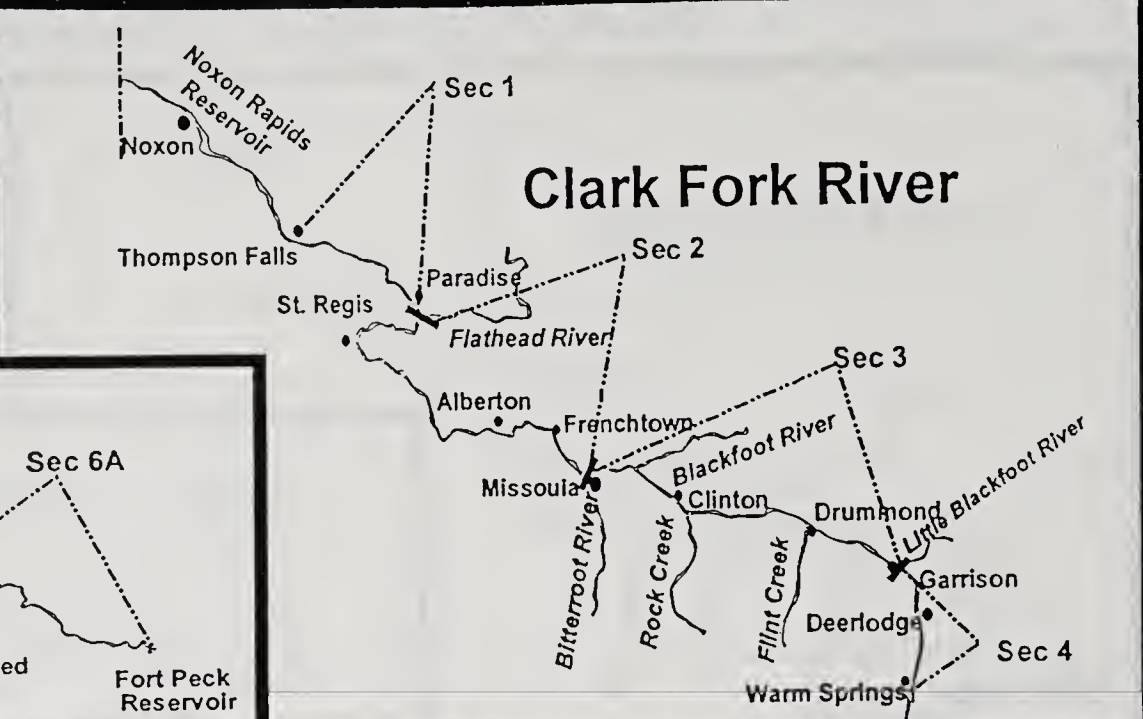
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Montana Fish,  
Wildlife & Parks

.....  
please return bottom portion  
.....

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Did you purchase a license to hunt in Montana between March 1, 1997 and February 28, 1998? <input type="checkbox"/> Yes <input type="checkbox"/> No
--

Did you purchase a license to fish in Montana between March 1, 1997 and February 28, 1998? <input type="checkbox"/> Yes - If yes, total number of days fished _____. Type of license purchased: <input type="checkbox"/> Non-Resident season <input type="checkbox"/> 2-day: How many did you purchase for only your use? _____ Enter EACH WATER FISHED IN MONTANA during this time period on a separate line below.  <input type="checkbox"/> No - If no, stop here and return form.
---

**\*\*ENTER EACH WATER FISHED ON A SEPARATE LINE. (YOUR fishing only)**

Name of Lake or Stream Fished	Section #  (See back)	Nearest Town or County	Number of Days Fished on each water during the year:	Was this water your 2nd choice because your 1st choice has Whirling Disease? (Y or N)	Rate your fishing on this water: 5 = excellent to 1 = poor	What one species did you primarily fish for?

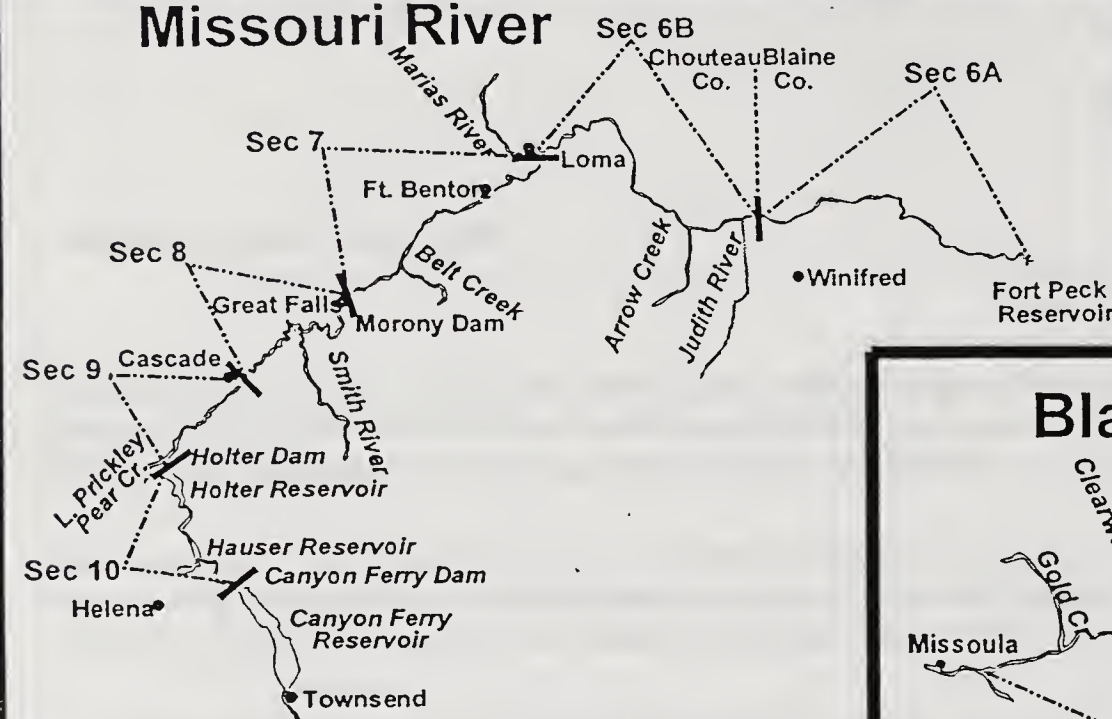
Thank you for your consideration.



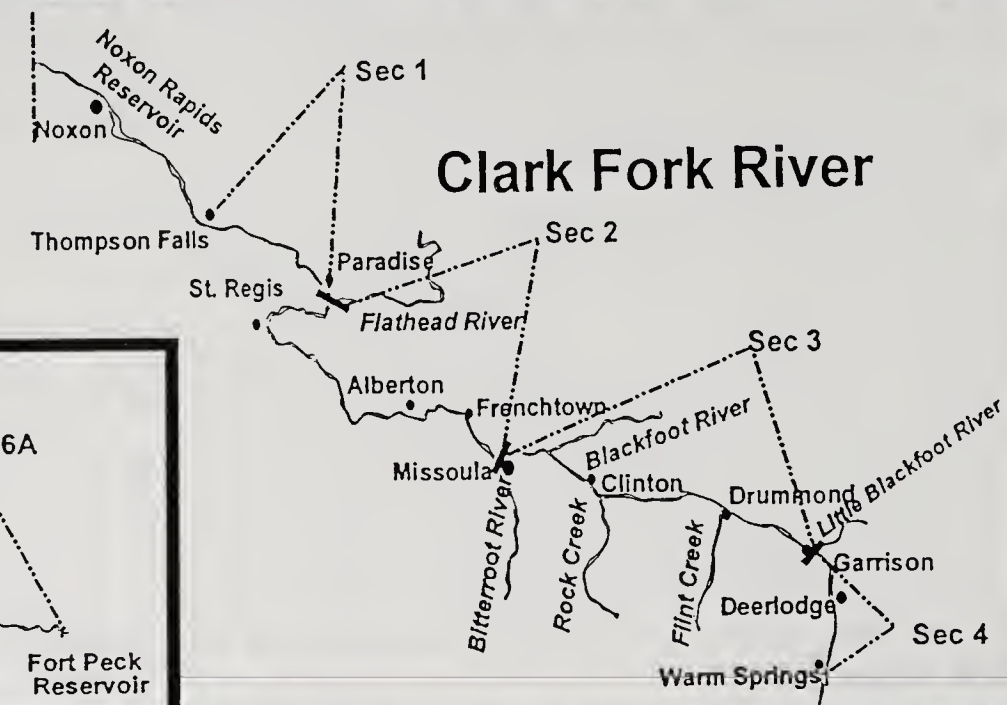
WE NEED INFORMATION ON ALL WATERS FISHED IN MONTANA NOT JUST THE WATERS INCLUDED ON THIS PAGE.  
SPECIFIC SECTIONS OF MONTANA WATERS THAT ARE DIFFICULT TO IDENTIFY

We need information on all waters fished in Montana, not just the waters included on this page. If you fished one of the rivers indicated on a map, please enter the specific section number in the appropriate space on the questionnaire form. For waters other than those indicated on a map, (this includes the Flathead, Milk River, eastern sections of the Missouri and Yellowstone, etc.) please be very specific as to the name of the lake, stream, or reservoir and the nearest town, point of access, or landmark to facilitate identification.

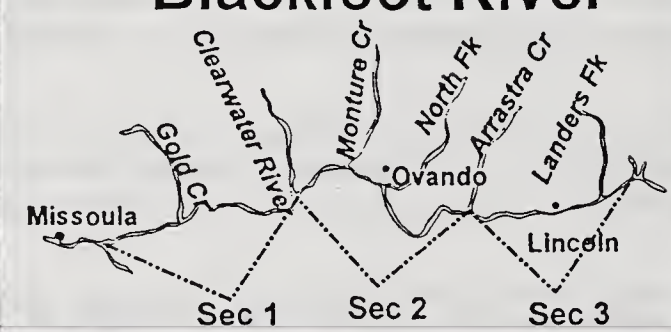
Missouri River



Clark Fork River



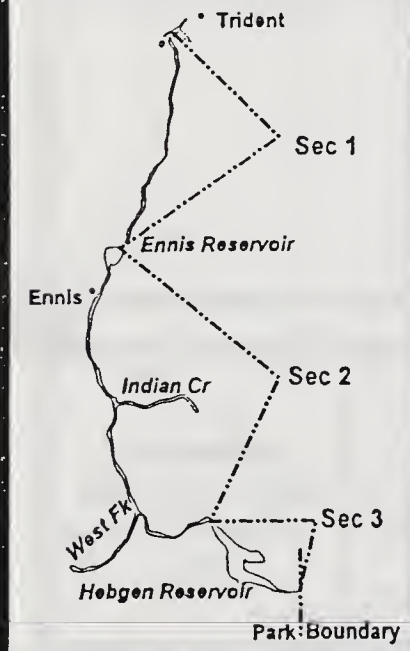
Blackfoot River



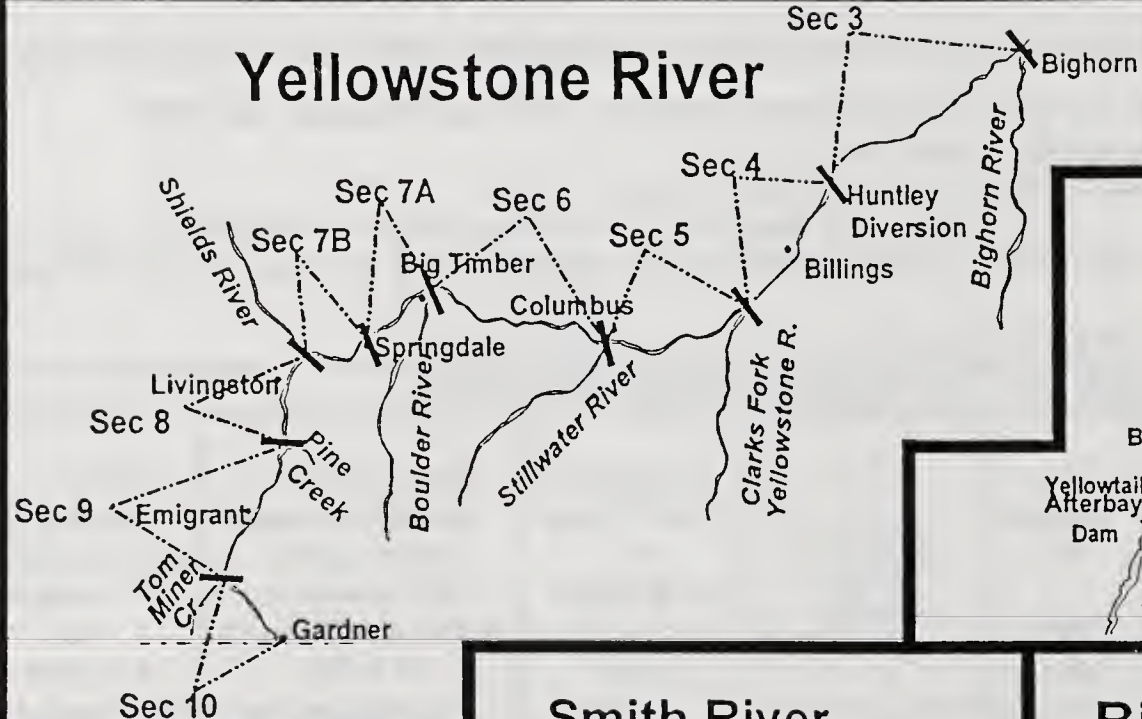
Bighorn River



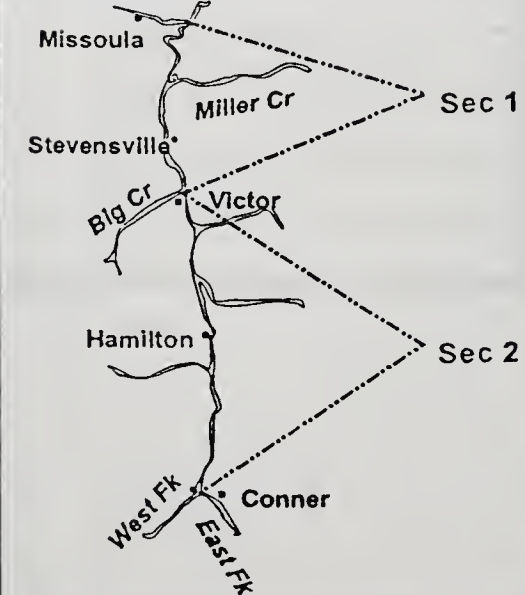
Madison River



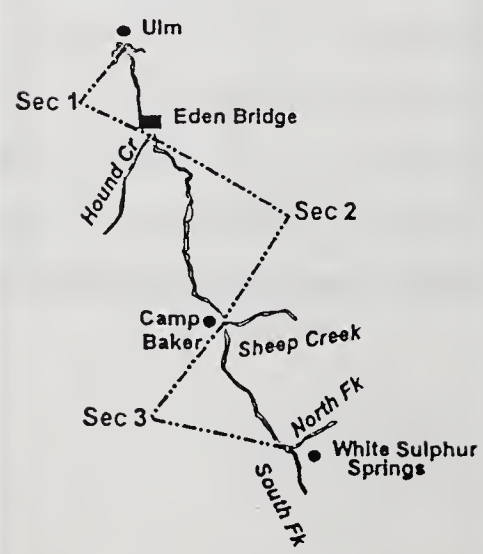
Yellowstone River



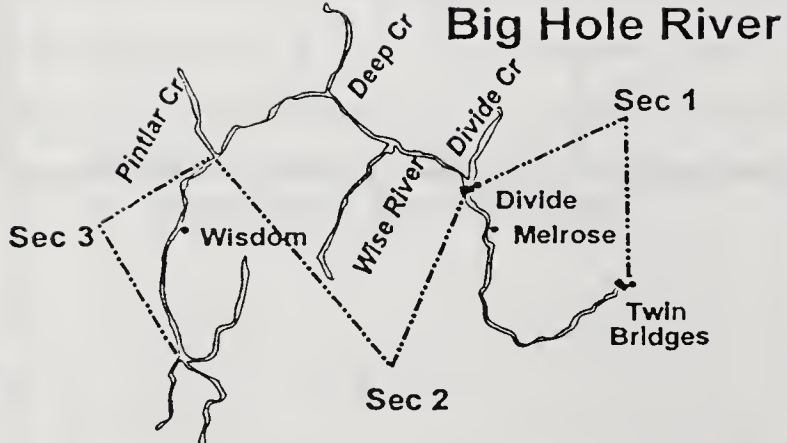
Bitterroot River



Smith River



Big Hole River





## APPENDIX B

Boundaries of waters broken into sections





STREAM NAME	SEC	WATER CODE	DOWNSIDE POINT	UPSTREAM POINT
BEAVER CREEK	SEC 01	15-0280	MOUTH	BEAVER CREEK RES.
	SEC 02	15-0320	BEAVER CREEK RES	BEAR PAW LAKE
	SEC 03	15-0340	BEAR PAW LAKE	ROCKY BOY INDIAN R
	SEC 04	15-0360	ROCKY BOY INDIAN RES	HEADWATERS
BIG HOLE R.	SEC 01	02-0425	MOUTH	DIVIDE CREEK
	SEC 02	02-0450	DIVIDE CREEK	PINTLAR CREEK
	SEC 03	02-0475	PINTLAR CREEK	HEADWATERS
BIG SPRING CR.	SEC 01	16-0301	JUDITH RIVER (MOUTH)	COTTONWOOD CREEK
	SEC 02	16-0310	COTTONWOOD CREEK	HEADWATERS
BIGHORN RIVER	SEC 01	22-0490	MOUTH	LITTLE BIGHORN RIVER
	SEC 02	22-0495	L.BIGHORN R	BIG HORN FAS (ACCESS CR)
	SEC 03	22-0496	(ACCESS CR.) BH-FAS	AFTERBAY
BITTERROOT R.	SEC 01	03-0475	MOUTH	BIG CREEK
	SEC 02	03-0500	BIG CREEK	HEADWATERS
BLACKFOOT R.	SEC 01	04-0600	MOUTH	CLEARWATER RIVER
	SEC 02	04-0630	CLEARWATER RIVER	ARRASTRA CREEK
	SEC 03	04-0660	ARRASTRA CREEK	HEADWATERS
BOULDER RIVER	SEC 01	22-0742	MOUTH	BOULDER FALLS (NAT BRDG)
	SEC 02	22-0756	NATURAL BRIDGE	HEADWATERS
	SEC 03	22-0770	BRIDGE CREEK	HEADWATERS
CLARK FORK R.	SEC 01	05-1440	IDAHO BORDER	FLATHEAD RIVER
	SEC 02	05-1456	FLATHEAD RIVER	BITTERROOT RIVER
	SEC 03	06-1121	BITTERROOT R	LITTLE BLACKFOOT R
	SEC 04	06-1140	LITTLE BLACKFOOT R	HEADWATERS

STREAM NAME	WATER CODE	DOWNSTREAM POINT	UPSTREAM POINT
CLARKS FK YELLOWSTONE			
SEC 01	22-1162	MOUTH	BRIDGER
SEC 02	22-1176	BRIDGER	WYOMING BORDER
SEC 03	22-1190	WYOMING BORDER	HEADWATERS
CROW CREEK			
SEC 01	07-1000	MOUTH	LOWER CROW RESERVOIR
SEC 02	07-1020	LOWER CROW RESERVOIR	HEADWATERS
CUT BANK CREEK			
SEC 01	14-1080	MOUTH	CUT BANK
SEC 02	14-1120	CUT BANK	GLACIER PARK
FLATHEAD RIVER			
SEC 01	07-1540	MOUTH	FLATHEAD LAKE
SEC 02	07-1560	FLATHEAD LAKE	S FK FLATHEAD R
GALLATIN RIVER			
SEC 01	09-2090	MOUTH	E GALLATIN RIVER
SEC 02	09-6878	E GALLATIN RIVER	SPANISH CREEK
SEC 03	09-6916	SPANISH CREEK	HEADWATERS
HYALITE CREEK			
SEC 01	09-2546	MOUTH	HYALITE RESERVOIR
SEC 02	09-6802	HYALITE RESERVOIR	HYALITE LAKE
JUDITH RIVER			
SEC 01	16-1800	MOUTH	PLUM CREEK
SEC 02	16-1820	PLUM CREEK	HEADWATERS
LITTLE BIGHORN RIVER			
SEC 01	22-3654	MOUTH	LODGE GRASS CREEK
SEC 02	22-3668	LODGE GRASS CREEK	HEADWATERS
LITTLE BLACKFOOT R			
SEC 01	06-3772	MOUTH	ELLISTON
SEC 02	06-3591	ELLISTON	HEADWATERS



STREAM NAME	WATER CODE	DOWNSTREAM POINT	UPSTREAM POINT
MADISON RIVER	SEC 01	MOUTH	ENNIS LAKE
	SEC 02	ENNIS LAKE	HEBGEN DAM
	SEC 03	HEBGEN LAKE	YELLOWSTONE PARK
MARIAS RIVER	SEC 01	MOUTH	TIBER DAM
	SEC 02	LAKE ELWELL	CUT BANK CREEK
MILK RIVER	SEC 01	MOUTH	HINSDALE
	SEC 02	HINSDALE	MALTA
	SEC 03	MALTA	HAVRE
	SEC 04	HAVRE	FRESNO DAM
	SEC 05	FRESNO RESERVOIR	CANADA
	SEC 06	CANADA	MIDDLE & SOUTH FORKS
MISSOURI RIVER	SEC 01	N DAKOTA BORDER	MILK RIVER
	SEC 05	MILK RIVER	FORT PECK DAM
	SEC 06A	FT PECK RES	BLAIN/CHOUT CO LINE
	SEC 06B	BLAIN/CHOUT CO LINE	MARIAS R
	SEC 07	MARIAS RIVER	MORONY DAM
	SEC 08	MORONY DAM	CASCADE BRIDGE
	SEC 09	CASCADE BRIDGE	HOLTER DAM
	SEC 10A	HOLTER LAKE	HAUSER DAM
	SEC 10B	HAUSER LAKE	CANYON FERRY
	SEC 11	(This is considered the same as Hauser Lake)	same as Hauser Lake)
	SEC 12	CANYON FERRY RES	TOSTON DAM
		TOSTON DAM	HEADWATERS
MUSSELSHELL RIVER	SEC 01	MOUTH	RT 3 BRIDGE NEAR LAVINA
	SEC 02	RT 3 BRIDGE NEAR LAVINA	HEADWATERS
POPLAR RIVER	SEC 01	MOUTH	E FK POPLAR RIVER
	SEC 02	E FK POPLAR RIVER	CANADA

STREAM NAME		WATER CODE	DOWNSTREAM POINT	UPSTREAM POINT
PRYOR CREEK	SEC 01	22-4802	MOUTH	PRYOR
	SEC 02	22-4816	PRYOR	HEADWATERS
RED ROCK RIVER	SEC 01	01-6140	MOUTH	LIMA DAM
	SEC 02	01-6160	LIMA RESERVOIR	UPPER RED ROCK LK
ROCK CREEK	SEC 01	06-5263	MOUTH	HOGBACK CREEK
	SEC 02	06-5282	HOGBACK CREEK	HEADWATERS
ROCK CREEK	SEC 01	22-4928	MOUTH	W FK (CHROME CAMP)
	SEC 02	22-4956	W FK (CHROME CAMP)	HEADWATERS
RUBY RIVER	SEC 01	01-6360	MOUTH	RUBY RESERVOIR
	SEC 02	01-6380	RUBY RESERVOIR	HEADWATERS
SHIELDS RIVER	SEC 01	22-5334	MOUTH	CLYDE PARK
	SEC 02	22-5348	CLYDE PARK	WILSALL
	SEC 03	22-5362	WILSALL	HEADWATERS
SMITH RIVER	SEC 01	17-6816	MOUTH	HOUND CREEK
	SEC 02	17-6832	HOUND CREEK	CAMP BAKER
	SEC 03	17-6833	CAMP BAKER	HEADWATERS
STILLWATER R.	SEC 01	22-6104	MOUTH	NYE
	SEC 02	22-6118	W FK (NYE)	HEADWATERS
SUN RIVER	SEC 01	20-6050	MOUTH	MUDDY CREEK
	SEC 02	20-6100	MUDDY CREEK	GIBSON DAM
SWAN RIVER	SEC 01	07-4560	MOUTH	SWAN LAKE
	SEC 02	07-4580	SWAN LAKE	HEADWATERS
TETON RIVER	SEC 01	14-6000	MOUTH	CHOTEAU
	SEC 02	14-6040	CHOTEAU	HEADWATERS



STREAM NAME	WATER CODE	DOWNSREAM POINT	UPSTREAM POINT
THOMPSON RIVER SEC 01	05-7248	MOUTH	BEND RANGER STATION
SEC 02	05-7264	BEND RANGER STATION	HEADWATERS
TONGUE RIVER SEC 01	21-1150	MOUTH	BEAVER CREEK
SEC 02	21-1200	BEAVER CREEK	TONGUE RIVER DAM
SEC 03	21-1250	TONGUE RIVER RES	WYOMING BORDER
W FK STILLWATER R			
SEC 01	22-6664	MOUTH	IRON CREEK
SEC 02	22-6678	IRON CREEK	HEADWATERS
YAAK RIVER SEC 01	11-7740	MOUTH	FALLS
SEC 02	11-7760	FALLS	HEADWATERS
YELLOWSTONE R. SEC 01	21-1350	N DAKOTA BORDER	POWDER RIVER
SEC 02	21-1400	POWDER RIVER	BIGHORN RIVER
SEC 03	22-7001	BIGHORN RIVER	HUNTLEY DIVERSION
SEC 04	22-7015	HUNTLEY DIVERSION	CLARKS FORK R
SEC 05	22-7028	CLARKS FORK R	STILLWATER R
SEC 06	22-7043	STILLWATER R	BOULDER R
SEC 07A	22-7057	BOULDER R	SPRINGDALE
SEC 07B	22-7058	SPRINGDALE	SHIELDS R
SEC 08	22-7071	SHIELDS R	PINE CREEK
SEC 09	22-7072	PINE CREEK	TOM MINER CREEK
SEC 10	22-7084	TOM MINER CREEK	GARDINER





## APPENDIX C

Statewide angling use estimates for those bodies of water that were fished because the anglers first choice had whirling disease.





**Statewide Angling Use Estimates For Those Water Bodies That Were Fished  
Because The Anglers First Choice Had Whirling Disease.**

Water Name	County	Water Code	Total		Resident		Nonresident	
			Press	Err Trips	Press	Err Trips	Press	Err Trips
BALDWIN RESERVOIR	YELLOWSTONE	521180008	69.	69.	69.	69.	0.	0.
BEAN LAKE	LEWIS & CLARK	417872005	182.	112.	148.	107.	34.	34.
BEAR CREEK	LINCOLN	111028001	34.	34.	34.	34.	0.	0.
BEARPAW LAKE	HILL	615456005	68.	68.	0.	0.	68.	68.
BEAVER CREEK RESERVOIR	HILL	615457003	134.	134.	134.	134.	0.	0.
BEAVERHEAD RIVER	BEAVERHEAD/MADISON	301050001	789.	297.	0.	0.	789.	297.
BIG HOLE RIVER SEC 01	BEAVERHEAD/MADISON/S BOW	302042501	613.	268.	89.	89.	524.	252.
BIG HOLE RIVER SEC 02	BEAVERHEAD/MADISON/S BOW	302045001	481.	324.	345.	313.	136.	83.
BIGHORN RIVER SEC 01	BIG HORN	522049001	76.	76.	76.	76.	0.	0.
BIGHORN RIVER SEC 02	BIG HORN	522049501	188.	109.	69.	69.	119.	85.
BIGHORN RIVER SEC 03	BIG HORN	522049601	1924.	851.	704.	433.	1220.	733.
BISON CREEK	JEFFERSON	310072001	356.	356.	356.	356.	0.	0.
BITTERROOT RIVER SEC 01	MISSOULA/RAVALLI	203047501	146.	73.	78.	55.	68.	48.
BITTERROOT RIVER SEC 02	RAVALLI	203050001	76.	54.	0.	0.	76.	54.
BLACKFOOT RIVER SEC 01	MISSOULA	204060001	80.	57.	46.	46.	34.	34.
BLACKFOOT RIVER SEC 02	MISSOULA/POWELL	204063001	80.	57.	46.	46.	34.	34.
BLACKFOOT RIVER SEC 03	POWELL/LEWIS & CLARK	204066001	78.	78.	78.	78.	0.	0.
BLOODY DICK CREEK	BEAVERHEAD	301074001	68.	48.	0.	0.	68.	48.
BOULDER RIVER SEC 01	SWEET GRASS	522074201	280.	170.	77.	76.	203.	152.
BROWNS LAKE	POWELL	204621003	602.	463.	602.	463.	0.	0.
BULL RIVER	SANDERS	105086401	102.	102.	0.	0.	102.	102.
CANYON FERRY RESERVOIR	LEWIS & CLARK/BROADWATER	317883205	2133.	1024.	2133.	1024.	0.	0.
CARTER POND	FERGUS	416462108	38.	38.	38.	38.	0.	0.
CLARK CANYON RESERVOIR	BEAVERHEAD	301861005	414.	211.	115.	83.	299.	195.
CLARK FORK RIVER SEC 01	SANDERS	105144001	617.	584.	583.	583.	34.	34.
CLARK FORK RIVER SEC 02	SANDERS/MINERAL/MISSOULA	205145601	428.	428.	428.	428.	0.	0.
CLARK FORK RIVER SEC 03	MISSOULA/GRANITE/POWELL	206112101	78.	78.	78.	78.	0.	0.
CLARKS RESERVOIR	PRAIRIE	721245003	23.	23.	23.	23.	0.	0.
CLEARWATER RIVER	MISSOULA	204129001	162.	125.	162.	125.	0.	0.
CLIFF LAKE	MADISON	313732003	213.	123.	77.	78.	136.	96.
COONEY RESERVOIR	CARBON	522751805	349.	196.	349.	196.	0.	0.
COOPERS LAKE	POWELL	204633003	39.	39.	39.	39.	0.	0.
DEARBORN RIVER	LEWIS & CLARK/CASCADE	417206401	34.	34.	0.	0.	34.	34.
DEEP CREEK	DEER LODGE	302162501	38.	38.	38.	38.	0.	0.
DELMO LAKE	JEFFERSON	310860005	76.	76.	76.	76.	0.	0.
DIAMOND LAKE	MINERAL	205872003	69.	69.	69.	69.	0.	0.
EARTHQUAKE LAKE	MADISON	313816003	34.	34.	0.	0.	34.	34.
EAST GALLATIN RIVER	GALLATIN	309171001	59.	59.	59.	59.	0.	0.
ELK CREEK RESERVOIR	STILLWATER	518764507	69.	69.	69.	69.	0.	0.
FLATHEAD LAKE	FLATHEAD/LAKE	107640003	993.	467.	993.	467.	0.	0.
FLATHEAD RIVER SEC 01	SANDERS/LAKE	107154001	145.	103.	145.	103.	0.	0.

# Statewide Angling Use Estimates For Those Water Bodies That Were Fished Because The Anglers First Choice Had Whirling Disease.

Water Name	County	Water Code	Total		Resident		Nonresident	
			Press	Err Trips	Press	Err Trips	Press	Err Trips
FLATHEAD RIVER SEC 02	FLATHEAD	107156001	68.	68.	0.	0.	68.	68.
FORT PECK LAKE	VALLEY/MCCONE	616514006	533.	327.	533.	327.	0.	0.
FOUR HORN LAKE	GLACIER	414740003	311.	311.	311.	311.	0.	0.
FRESNO RESERVOIR	HILL	615524005	59.	59.	59.	59.	0.	0.
GALLATIN RIVER SEC 01	GALLATIN	309209001	102.	60.	68.	49.	34.	34.
GALLATIN RIVER SEC 02	GALLATIN	309687801	1078.	471.	836.	452.	242.	132.
GEORGETOWN LAKE	GRANITE/DEER LODGE	206796105	136.	107.	0.	0.	136.	107.
GIBBON RIVER	YELLOWSTONE NATIONAL PAR	313237501	34.	34.	0.	0.	34.	34.
HANSON CREEK RESERVOIR	FERGUS	416553507	38.	38.	38.	38.	0.	0.
HAUSER LAKE	LEWIS & CLARK	417905605	1481.	598.	1312.	589.	169.	102.
HEBGEN LAKE	GALLATIN	313772005	359.	161.	156.	110.	203.	117.
HOLLAND LAKE	MISSOULA	107678003	191.	191.	191.	191.	0.	0.
HOLLAND RESERVOIR	FERGUS	418783907	78.	78.	78.	78.	0.	0.
HOLTER LAKE	LEWIS & CLARK	417913605	787.	352.	697.	345.	90.	71.
HYALITE CREEK SEC 01	GALLATIN	309254601	78.	78.	78.	78.	0.	0.
HYALITE RESERVOIR	GALLATIN	309851205	380.	380.	0.	0.	380.	380.
JEFFERSON RIVER	JEFFERSON/MADISON	310384001	547.	514.	547.	514.	0.	0.
JOCKO RIVER	SANDERS/LAKE/MISSOULA	107226001	313.	313.	313.	313.	0.	0.
JUDITH RIVER SEC 02	FERGUS/JUDITH BASIN	416182001	78.	78.	78.	78.	0.	0.
KILBRENNAN LAKE	LINCOLN	111864003	34.	34.	0.	0.	34.	34.
KOOTENAI RIVER	LINCOLN	111350001	379.	318.	311.	311.	68.	68.
LAKE ELMO	YELLOWSTONE	522777707	148.	148.	148.	148.	0.	0.
LAKE ELWELL	LIBERTY/TOOLE	414924005	183.	152.	183.	152.	0.	0.
LAKE FRANCES	PONDERA	414744006	148.	148.	148.	148.	0.	0.
LAKE MARY RONAN	LAKE	107770003	206.	167.	206.	167.	0.	0.
LAKE OF THE WOODS	BEAVERHEAD	302827503	59.	59.	59.	59.	0.	0.
LANDERS FORK BLACKFOOT R	LEWIS & CLARK	204312001	78.	78.	78.	78.	0.	0.
LINCOLN GULCH	LEWIS & CLARK	204315010	59.	59.	59.	59.	0.	0.
LITTLE BITTERROOT LAKE	FLATHEAD	107730005	69.	69.	69.	69.	0.	0.
LITTLE BLACKFOOT R SEC 01	POWELL	206377201	272.	194.	272.	194.	0.	0.
LITTLE PRICKLY PEAR CREEK	LEWIS & CLARK	417422401	34.	34.	0.	0.	34.	34.
LITTLE TRAPPER CREEK	RAVALLI	203340010	390.	390.	0.	0.	390.	390.
LOLO CREEK	MISSOULA	203347501	46.	46.	46.	46.	0.	0.
LOST CREEK	LAKE	107256001	34.	34.	34.	34.	0.	0.
LOWER THOMPSON LAKE	LINCOLN	105915203	950.	950.	0.	0.	950.	950.
LUCKY GULCH	LINCOLN	111406010	34.	34.	0.	0.	34.	34.
MADISON RIVER SEC 01	GALLATIN/MADISON	313340001	2741.	1106.	985.	569.	1756.	949.
MADISON RIVER SEC 02	MADISON	313344001	1100.	793.	117.	117.	983.	784.
MADISON RIVER SEC 03	GALLATIN	313352001	445.	321.	309.	310.	136.	83.
MARIAS RIVER SEC 01	CHOUTEAU/HILL/LIBERTY	414324002	59.	59.	59.	59.	0.	0.
MARTINSDALE RESERVOIR	WHEATLAND/MEAGHER	418838005	140.	119.	140.	119.	0.	0.



# Statewide Angling Use Estimates For Those Water Bodies That Were Fished Because The Anglers First Choice Had Whirling Disease.

Water Name	County	Water Code	Total		Resident		Nonresident	
			Press	Err Trips	Press	Err Trips	Press	Err Trips
MILL CREEK	MADISON	313384010	78.	78.	78.	78.	0.	0.
MISSOURI RIVER SEC 06A	PHILLIPS/FERGUS/BLAINE	616252102	195.	161.	195.	161.	0.	0.
MISSOURI RIVER SEC 06B	CHOUTEAU	416252202	76.	76.	76.	76.	0.	0.
MISSOURI RIVER SEC 08	CASCADE	417488001	274.	217.	206.	206.	68.	68.
MISSOURI RIVER SEC 09	CASCADE/LEWIS & CLARK	417489601	1042.	495.	906.	476.	136.	136.
MISSOURI RIVER SEC 10A	LEWIS & CLARK	417491301	206.	206.	206.	206.	0.	0.
MISSOURI RIVER SEC 10B	LEWIS & CLARK	417491401	117.	117.	117.	117.	0.	0.
MOORE LAKE	MINERAL	205926403	78.	78.	78.	78.	0.	0.
N FK BLACKFOOT RIVER	POWELL	204396001	291.	206.	155.	156.	136.	136.
N FK FLATHEAD RIVER	FLATHEAD	108510001	39.	39.	39.	39.	0.	0.
NELSON RESERVOIR	PHILLIPS	615648006	76.	76.	76.	76.	0.	0.
NELSON SPRING CREEK	PARK	322430501	34.	34.	0.	0.	34.	34.
NILAN RESERVOIR	LEWIS & CLARK	420790005	321.	236.	321.	236.	0.	0.
PLACID LAKE	MISSOULA	204714003	92.	72.	92.	72.	0.	0.
POINDEXTER SLOUGH	BEAVERHEAD	301589001	339.	339.	0.	0.	339.	339.
POPLAR RIVER SEC 01	DANIELS/ROOSEVELT	616282002	810.	810.	810.	810.	0.	0.
PRICKLY PEAR CREEK	LEWIS & CLARK	317603201	424.	335.	356.	328.	68.	68.
ROCK CREEK SEC 01	MISSOULA/GRANITE	206526301	313.	174.	245.	161.	68.	68.
ROCK CREEK SEC 01	CARBON	522492801	34.	34.	0.	0.	34.	34.
ROCK CREEK SEC 02	GRANITE	206528201	34.	34.	0.	0.	34.	34.
RUBY RIVER RESERVOIR	MADISON	301944005	68.	68.	0.	0.	68.	68.
RUBY RIVER SEC 01	MADISON	301636001	155.	155.	0.	0.	155.	155.
RUBY RIVER SEC 02	MADISON	301638001	131.	103.	0.	0.	131.	103.
S FK FLATHEAD RIVER	FLATHEAD/POWELL	108666001	136.	96.	0.	0.	136.	96.
SHIELDS RIVER SEC 01	PARK	322533401	34.	34.	0.	0.	34.	34.
SKINNER LAKE	LINCOLN	111956003	34.	34.	0.	0.	34.	34.
SMITH RIVER SEC 03	CASCADE	417683301	59.	59.	59.	59.	0.	0.
SOUTH COTTONWOOD CREEK	GALLATIN	309547201	103.	103.	103.	103.	0.	0.
STILLWATER RIVER SEC 01	STILLWATER	522610401	501.	260.	399.	248.	102.	76.
STONY CREEK	GRANITE	206630801	68.	68.	0.	0.	68.	68.
SUN RIVER DRAINAGE	TETON	420831030	23.	23.	23.	23.	0.	0.
SUN RIVER SEC 02	CASCADE/TETON/LEWIS&CLAR	420610001	107.	78.	39.	39.	68.	68.
SWAN LAKE	LAKE	107900005	69.	69.	69.	69.	0.	0.
SWAN RIVER SEC 02	LAKE/MISSOULA	107458001	272.	272.	272.	272.	0.	0.
SWIFT DAM	PONDERA	414916005	69.	69.	69.	69.	0.	0.
THOMPSON RIVER SEC 01	SANDERS	105724801	285.	285.	0.	0.	285.	285.
TONGUE RIVER SEC 01	CUSTER/ROSEBUD	721115002	46.	46.	46.	46.	0.	0.
TONGUE RIVER SEC 03	BIG HORN	721125001	175.	128.	0.	0.	175.	128.
TWIN LAKES	RAVALLI	203947503	39.	39.	39.	39.	0.	0.
UNDESIGNATED WATERS	STATEWIDE	000003500	913.	665.	343.	343.	570.	570.
UNDESIGNATED WATERS	YELLOWSTONE PARK	000010000	482.	388.	0.	0.	482.	388.
W FK ROCK CREEK	CARBON	522665001	38.	38.	38.	38.	0.	0.

Statewide Angling Use Estimates For Those Water Bodies That Were Fished  
Because The Anglers First Choice Had Whirling Disease.

Water Name	County	Water Code	Total		Resident		Nonresident	
			Press	Err Trips	Press	Err Trips	Press	Err Trips
WADE LAKE		313892003	218.	139.	116.	117.	102.	76.
WEST BOULDER RIVER	MADISON	522655201	68.	68.	0.	0.	68.	68.
WILLOW CREEK RESERVOIR	SWEET GRASS/PARK	310944005	195.	195.	195.	195.	0.	0.
YELLOW WATER LAKE	MADISON	418950006	23.	23.	23.	23.	0.	0.
YELLOWSTONE RIVER SEC 02	PETROLEUM	721140002	92.	92.	92.	92.	0.	0.
YELLOWSTONE RIVER SEC 03	PRAIRIE/CUSTER/RBUD/TREA	522700102	117.	117.	117.	117.	0.	0.
YELLOWSTONE RIVER SEC 04	YELLOWSTONE	522701501	522.	422.	522.	422.	0.	0.
YELLOWSTONE RIVER SEC 05	YELLOWSTONE/STILLWATER	522702801	552.	257.	552.	257.	0.	0.
YELLOWSTONE RIVER SEC 06	STILLWATER	522704301	250.	141.	114.	114.	136.	83.
YELLOWSTONE RIVER SEC 07A	STILLWATER/SWEET GRASS	522705701	290.	169.	193.	138.	97.	97.
YELLOWSTONE RIVER SEC 07B	SWEET GRASS/PARK	322705801	407.	288.	0.	0.	407.	288.
YELLOWSTONE RIVER SEC 08	PARK	322707101	576.	348.	216.	177.	360.	300.
YELLOWSTONE RIVER SEC 09	PARK	322707201	314.	215.	280.	212.	34.	34.
YELLOWSTONE RIVER SEC 10	PARK	322708401	194.	194.	194.	194.	0.	0.





